

=> file reg

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STRUCTURE FILE UPDATES: 18 AUG 2004 HIGHEST RN 728239-10-9
 DICTIONARY FILE UPDATES: 18 AUG 2004 HIGHEST RN 728239-10-9

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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=> file hcaplus

FILE 'HCAPLUS' ENTERED AT 09:21:12 ON 20 AUG 2004
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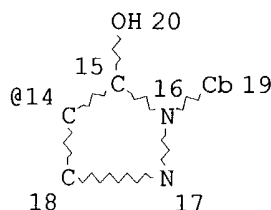
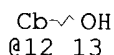
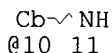
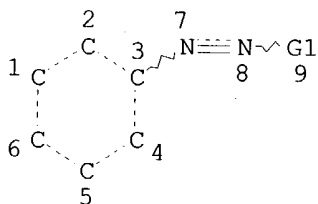
FILE COVERS 1907 - 20 Aug 2004 VOL 141 ISS 8
 FILE LAST UPDATED: 18 Aug 2004 (20040818/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que

L1

STR



*76, 810 structures
 from this
 query which
 covers all of claims
 10 & 11*

VAR G1=12/10/14
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 GGCAT IS MCY UNS AT 10
 GGCAT IS PCY UNS AT 12
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RSPEC 1
 NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE

L2 SCR 172 AND 1839 AND 1993
 L4 76810 SEA FILE=REGISTRY SSS FUL L1 AND L2
 L5 42760 SEA FILE=HCAPLUS ABB=ON L4
 L6 461 SEA FILE=HCAPLUS ABB=ON L5(L) (HAIR OR KERAT?)
 L12 295041 SEA FILE=REGISTRY ABB=ON POLYACRYLIC/PCT - *polymer class term for polyacrylia*
 L13 394181 SEA FILE=HCAPLUS ABB=ON L12
 L19 368 SEA FILE=HCAPLUS ABB=ON L6(L) DYE?
 L20 52 SEA FILE=HCAPLUS ABB=ON L19 AND (?ACRYL? OR L13)
 L21 49 SEA FILE=HCAPLUS ABB=ON L20 AND COSMETIC?/SC, SX

49 CA references on utility

=> d 121 all 1-49 hitstr

L21 ANSWER 1 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2004:549680 HCAPLUS
 DN 141:76361
 ED Entered STN: 09 Jul 2004
 TI Hair dye foams containing water-soluble polymers
 IN Nishimoto, Hiroaki; Ishii, Takeharu
 PA Mandom Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and Cosmetics)
 FAN.CNT 1

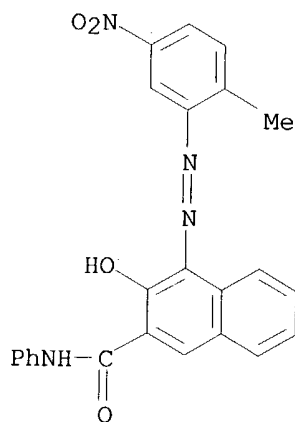
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2004189634	A2	20040708	JP 2002-356841	20021209
PRAI JP 2002-356841		20021209		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2004189634	ICM	A61K007-13
JP 2004189634	FTERM	4C083/AB051; 4C083/AB132; 4C083/AB232; 4C083/AB432; 4C083/AC012; 4C083/AC101; 4C083/AC102; 4C083/AC122; 4C083/AC181; 4C083/AC182; 4C083/AC432; 4C083/AC442; 4C083/AC482; 4C083/AC642; 4C083/AC691; 4C083/AC692; 4C083/AC812; 4C083/AD011; 4C083/AD091; 4C083/AD092; 4C083/AD162; 4C083/BB04; 4C083/BB06; 4C083/BB23; 4C083/BB24; 4C083/BB49; 4C083/CC36

AB This invention relates to hair dye foams comprising water-soluble polymers, dyes, cationic surfactants, nonionic surfactants, ethanol, water, and propellants. The compns. give excellent hair colors and do not cause aerosol valve clogging. For example, a hair dye foam contained ethanol

- 10, stearyltrimethylammonium chloride 0.5, N-methacryloyloxyethyl N,N-dimethylammonium- α -N-methylcarboxybetaine-alkyl methacrylate copolymer 4, ethoxylated hydrogenated castor oil 0.5, carbon black 0.6, Japan Yellow 205 0.1, Japan Red 404 0.3, concentrated glycerin 1, panthenol 0.5, methylparaben 0.1, liquefied petroleum gas 10, perfumes q.s., distd water balance to 100 %.
- ST hair dye foam **methacrylate methacryloyloxyethyl dimethylammonium betaine** copolymer
- IT Surfactants
(cationic; hair dye foams containing polymers and surfactants and dyes)
- IT Hair preparations
(dyes, foams; hair dye foams containing polymers and surfactants and dyes)
- IT Carbon black, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair dye foams containing polymers and surfactants and dyes)
- IT Castor oil
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hydrogenated, ethoxylated; hair dye foams containing polymers and surfactants and dyes)
- IT Surfactants
(nonionic; hair dye foams containing polymers and surfactants and dyes)
- IT 64-17-5, Ethanol, biological studies 79-41-4D, **Methacrylic** acid, alkyl esters, copolymers with carboxymethyl[(**methacryloyloxy**)ethyl]dimethylbetaine 112-03-8, Stearyltrimethylammonium chloride 147-14-8, Japan blue 404 6358-85-6, Japan yellow 205 **6448-95-9**, Japan red 404 9002-92-0, Polyoxyethylene lauryl ether 9004-95-9, Polyoxyethylene cetyl ether 9005-67-8, Polyoxyethylene sorbitan monostearate 62723-61-9D, copolymers with alkyl **methacrylate**
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(**hair dye** foams containing polymers and surfactants and dyes)
- IT **6448-95-9**, Japan red 404
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(**hair dye** foams containing polymers and surfactants and dyes)
- RN 6448-95-9 HCAPLUS
- CN 2-Naphthalenecarboxamide, 3-hydroxy-4-[(2-methyl-5-nitrophenyl)azo]-N-phenyl- (9CI) (CA INDEX NAME)



L21 ANSWER 2 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2004:510123 HCAPLUS
 DN 141:59182
 ED Entered STN: 24 Jun 2004
 TI Compositions containing a direct dye and a specific polymer for coloring
 of hair fibers
 IN Guerin, Frederic; Samain, Henri
 PA L'oreal, Fr.
 SO Eur. Pat. Appl., 15 pp.
 CODEN: EPXXDW
 DT Patent
 LA French
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1430876	A1	20040623	EP 2003-293258	20031219
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	FR 2848834	A1	20040625	FR 2002-16205	20021219
PRAI	FR 2002-16205	A	20021219		

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	EP 1430876	ICM	A61K007-13
	EP 1430876	ECLA	A61K008/81K6; A61Q005/10
	FR 2848834	ECLA	A61K008/81K6; A61Q005/10
AB	Compns. contain a direct dye and a specific polymer for coloring of hair fibers. The compns. comprise a direct dye, a water-soluble polymer, and an agent for increasing the viscosity.		
ST	hair direct dye polymer viscosity enhancer		
IT	Alcohols, biological studies RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (C1-4; compns. containing direct dye and polymer for coloring of hair fibers)		
IT	Ketones, biological studies RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (C3-4; compns. containing direct dye and polymer for coloring of hair fibers)		
IT	Alkanes, biological studies RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (C5-10; compns. containing direct dye and polymer for coloring of hair fibers)		
IT	Phenols, biological studies RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (amino, dyes; compns. containing direct dye and polymer for coloring of hair fibers)		
IT	Surfactants (amphoteric; compns. containing direct dye and polymer for coloring of hair fibers)		
IT	Polyelectrolytes Surfactants (anionic; compns. containing direct dye and polymer for coloring of hair fibers)		
IT	Dyes (azomethine; compns. containing direct dye and polymer for coloring of hair fibers)		
IT	Dyes		

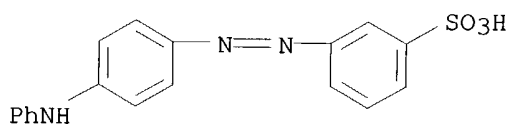
Polyelectrolytes
 Surfactants
 (cationic; compns. containing direct dye and polymer for coloring of hair fibers)
 IT Antioxidants
 Azo dyes
 Dispersing agents
 Electrolytes
 Fluorescent dyes
 Human
 Opacifiers
 Perfumes
 Polyelectrolytes
 Preservatives
 Sequestering agents
 Solvents
 Surfactants
 Thickening agents
 Viscosity
 (compns. containing direct dye and polymer for coloring of hair fibers)
 IT Acids, biological studies
 Alkali metal hydroxides
 Polymers, biological studies
 Tannins
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (compns. containing direct dye and polymer for coloring of hair fibers)
 IT Hair preparations
 (conditioners; compns. containing direct dye and polymer for coloring of hair fibers)
 IT Hair preparations
 (creams; compns. containing direct dye and polymer for coloring of hair fibers)
 IT Dyes
 (direct; compns. containing direct dye and polymer for coloring of hair fibers)
 IT Phenols, biological studies
 Porphyrins
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (dyes; compns. containing direct dye and polymer for coloring of hair fibers)
 IT Hair preparations
 (gels; compns. containing direct dye and polymer for coloring of hair fibers)
 IT Hair preparations
 (lotions; compns. containing direct dye and polymer for coloring of hair fibers)
 IT Phenols, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (naphthols, dyes; compns. containing direct dye and polymer for coloring of hair fibers)
 IT Surfactants
 (nonionic; compns. containing direct dye and polymer for coloring of hair fibers)
 IT Amines, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (phenolic, dyes; compns. containing direct dye and polymer for coloring of hair fibers)
 IT Carboxylic acids, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

- (polycarboxylic, salts; compns. containing direct dye and polymer for coloring of hair fibers)
- IT Carboxylic acids, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(polycarboxylic; compns. containing direct dye and polymer for coloring of hair fibers)
- IT Alcohols, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(polyhydric, ethers; compns. containing direct dye and polymer for coloring of hair fibers)
- IT Phenols, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(polyphenols, nonpolymeric; compns. containing direct dye and polymer for coloring of hair fibers)
- IT Hair preparations
(sprays; compns. containing direct dye and polymer for coloring of hair fibers)
- IT Polymers, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(water-soluble; compns. containing direct dye and polymer for coloring of hair fibers)
- IT 64-19-7D, Acetic acid, C1-4 alkyl esters 69-72-7, o-Hydroxybenzoic acid, biological studies 72-48-0, Alizarin 79-06-1D, **Acrylamide**, polymers 79-10-7D, **Acrylic** acid, polymers 81-48-1, Solvent Violet 13 81-54-9, Purpurin 82-33-7 83-72-7, Lawsone 85-23-4, Spinulosin 87-66-1, Pyrogallol 87-69-4, Tartaric acid, biological studies 88-99-3, Phthalic acid, biological studies 91-56-5, Isatin 92-31-9, Basic Blue 17 96-91-3, 2-Amino-4,6-dinitrophenol 99-06-9, m-Hydroxybenzoic acid, biological studies 99-56-9, 1,2-Diamino-4-nitrobenzene 99-57-0, 2-Amino-4-nitrophenol 99-96-7, p-Hydroxybenzoic acid, biological studies 100-51-6, Benzyl alcohol, biological studies 108-46-3, Resorcinol, biological studies 110-71-4 116-85-8, Disperse Red 15 121-88-0, 2-Amino-5-nitrophenol 124-04-9, Adipic acid, biological studies 128-95-0, Disperse Violet 1 139-85-5, Protocatechuic aldehyde 144-62-7, Oxalic acid, biological studies 149-91-7, Gallic acid, biological studies 299-27-4, Potassium Gluconate 458-37-7, Curcumin 477-73-6, Basic Red 2 481-39-0, Juglone 526-95-4, Gluconic acid 526-95-4D, Gluconic acid, salts 527-07-1, Sodium Gluconate 548-62-9, Basic Violet 3 569-77-7, Purpurogallin **587-98-4**, Acid Yellow 36 610-81-1, 4-Amino-3-nitrophenol 632-99-5, Basic Violet 14 633-03-4, Basic Green 1 **633-96-5**, Acid Orange 7 **1064-48-8**, Acid Black 1 1151-98-0, Apigenidin 1220-94-6, Disperse Violet 4 1260-17-9, Carminic acid 1320-07-6, Acid Orange 24 1694-09-3, Acid Violet 49 **1934-21-0**, Acid Yellow 23 2390-60-5, Basic Blue 7 2475-45-8, Disperse Blue 1 2475-46-9, Disperse Blue 3 2580-56-5, Basic Blue 26 **2706-28-7**, Acid Yellow 9 2871-01-4 2872-48-2, Disperse Red 11 3179-89-3, Disperse Red 17 3179-90-6, Disperse Blue 7 3486-30-4, Acid Blue 7 **3567-66-6**, Acid Red 33 4368-56-3, Acid Blue 62 4430-18-6, Acid Violet 43 4926-55-0 5307-14-2, 1,4-Diamino-2-nitrobenzene 6358-09-4 **6441-93-6** 6472-57-7, Acid Blue 91 6915-15-7, Malic acid **9003-06-9**, **Acrylic acid-Acrylamide** copolymer 10442-83-8 12217-41-3, Basic Blue 22 12221-52-2, Basic Red 22 13556-29-1 18499-92-8, Kermesic acid 19222-41-4, Ammonium Gluconate **20721-50-0**, Disperse Black 9 **22036-97-1** 22366-99-0 23946-41-0 24905-87-1 **26381-41-9**, Basic Brown 16 **26590-05-6**, **Acrylamide**-diallyldimethylammonium chloride copolymer 29705-39-3 33229-34-4 47569-30-2 50610-28-1 52136-23-9

52136-25-1 52551-67-4 56330-88-2 56932-44-6 56932-45-7
 59820-43-8 59820-63-2 65235-31-6 66095-81-6 66612-11-1
 66612-19-9 68123-13-7, Basic Blue 99 68259-00-7 **68391-30-0**,
 Basic Red 76 68391-31-1, Basic Yellow 57 68651-46-7, Indigo
69418-26-4 74153-51-8 77061-58-6 80062-31-3
 81612-54-6 82576-75-8 84041-77-0 86419-68-3 97404-02-9
 99788-75-7 104333-00-8 104516-93-0 **108388-79-0** 131657-78-8
 141973-33-3 154442-49-6 **176742-32-8**, Basic Brown 17
 359868-06-7 360069-60-9, C.I. Disperse Violet 15 708270-17-1
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (compns. containing direct **dye** and polymer for coloring of
hair fibers)

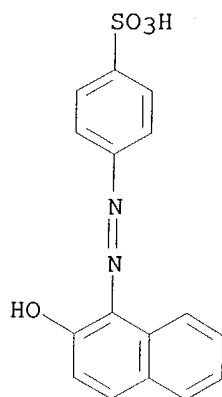
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1064-48-8, Acid Black 1 **1934-21-0**, Acid Yellow 23
2706-28-7, Acid Yellow 9 **3567-66-6**, Acid Red 33
6441-93-6 9003-06-9, Acrylic acid-
 Acrylamide copolymer **20721-50-0**, Disperse Black 9
22036-97-1 26381-41-9, Basic Brown 16 **26590-05-6**
 , Acrylamide-diallyldimethylammonium chloride copolymer
68391-30-0, Basic Red 76 **69418-26-4 74153-51-8**
108388-79-0 176742-32-8, Basic Brown 17
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (compns. containing direct **dye** and polymer for coloring of
hair fibers)

RN 587-98-4 HCAPLUS
 CN Benzenesulfonic acid, 3-[[4-(phenylamino)phenyl]azo]-, monosodium salt
 (9CI) (CA INDEX NAME)



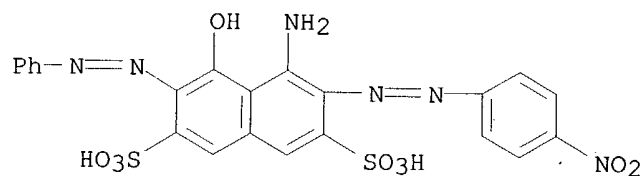
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RN 633-96-5 HCAPLUS
 CN Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt
 (9CI) (CA INDEX NAME)



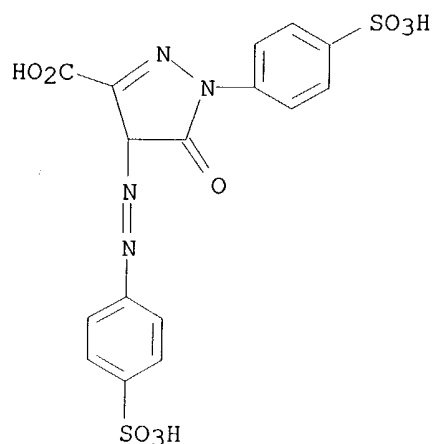
● Na

RN 1064-48-8 HCAPLUS
 CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



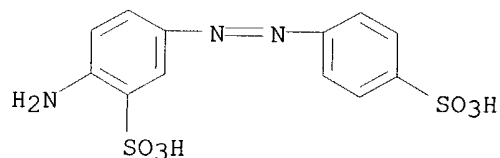
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RN 1934-21-0 HCAPLUS
 CN 1H-Pyrazole-3-carboxylic acid, 4,5-dihydro-5-oxo-1-(4-sulfophenyl)-4-[(4-sulfophenyl)azo]-, trisodium salt (9CI) (CA INDEX NAME)



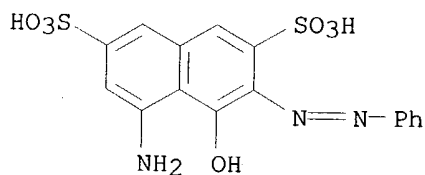
●3 Na

RN 2706-28-7 HCAPLUS
CN Benzenesulfonic acid, 2-amino-5-[(4-sulfophenyl)azo]-, disodium salt (9CI)
(CA INDEX NAME)



●2 Na

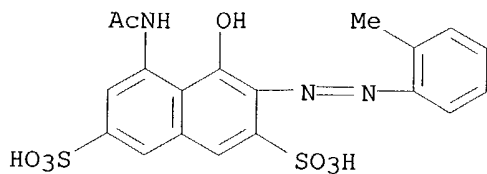
RN 3567-66-6 HCAPLUS
CN 2,7-Naphthalenedisulfonic acid, 5-amino-4-hydroxy-3-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 6441-93-6 HCAPLUS
CN 2,7-Naphthalenedisulfonic acid, 5-(acetylamino)-4-hydroxy-3-[(2-

methylphenyl)azo]-, disodium salt (9CI) (CA INDEX NAME)

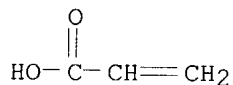


● 2 Na

RN 9003-06-9 HCAPLUS
CN 2-Propenoic acid, polymer with 2-propenamide (9CI) (CA INDEX NAME)

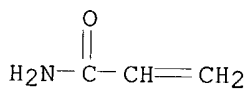
CM 1

CRN 79-10-7
CMF C3 H4 O2

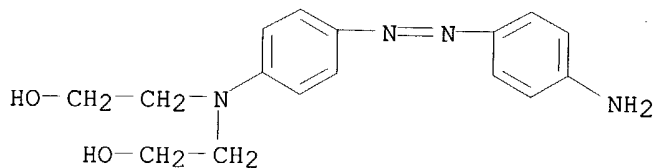


CM 2

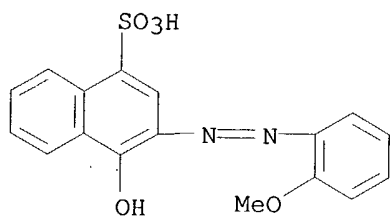
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CMF C3 H5 N O



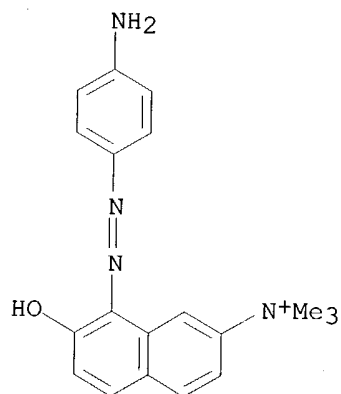
RN 20721-50-0 HCAPLUS
CN Ethanol, 2,2'-[[4-[(4-aminophenyl)azo]phenyl]imino]bis- (9CI) (CA INDEX NAME)



RN 22036-97-1 HCAPLUS
CN 1-Naphthalenesulfonic acid, 4-hydroxy-3-[(2-methoxyphenyl)azo]- (9CI) (CA INDEX NAME)



RN 26381-41-9 HCAPLUS
 CN 2-Naphthalenaminium, 8-[(4-aminophenyl)azo]-7-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

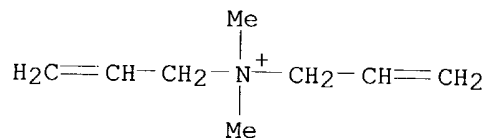


● Cl⁻

RN 26590-05-6 HCAPLUS
 CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

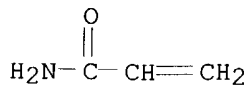
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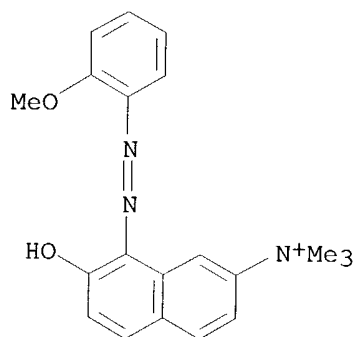
● Cl⁻

CM 2

CRN 79-06-1
CMF C3 H5 N O



RN 68391-30-0 HCAPLUS
CN 2-Naphthalenaminium, 7-hydroxy-8-[(2-methoxyphenyl)azo]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

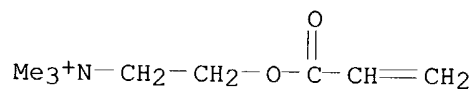


● Cl⁻

RN 69418-26-4 HCAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

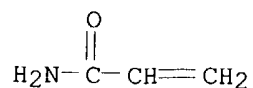
CRN 44992-01-0
CMF C8 H16 N O2 . Cl



● Cl⁻

CM 2

CRN 79-06-1
CMF C3 H5 N O

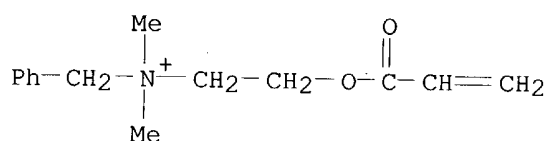


RN 74153-51-8 HCAPLUS
 CN Benzenemethanaminium, N,N-dimethyl-N-[2-[(1-oxo-2-propenyl)oxy]ethyl]-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 46830-22-2

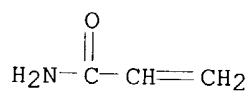
CMF C14 H20 N O2 . Cl



CM 2

CRN 79-06-1

CMF C3 H5 N O

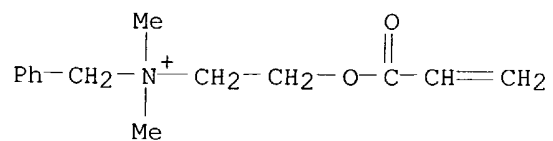


RN 108388-79-0 HCAPLUS
 CN Benzenemethanaminium, N,N-dimethyl-N-[2-[(1-oxo-2-propenyl)oxy]ethyl]-, chloride, polymer with 2-propenamide and N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]ethanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 46830-22-2

CMF C14 H20 N O2 . Cl

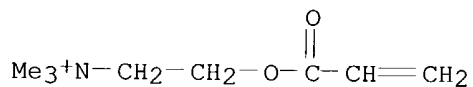


● Cl⁻

CM 2

CRN 44992-01-0

CMF C8 H16 N O2 . Cl

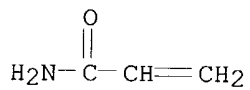


● Cl⁻

CM 3

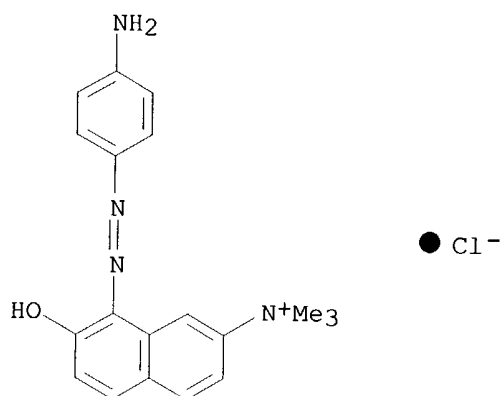
CRN 79-06-1

CMF C3 H5 N O



RN 176742-32-8 HCAPLUS

CN 2-Naphthalenaminium, 8-[(4-aminonitrophenyl)azo]-7-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



D1-NO2

L21 ANSWER 3 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2004:510121 HCAPLUS
 DN 141:59180
 ED Entered STN: 24 Jun 2004
 TI Use of 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivatives in hair
 dyeing compositions
 IN Hoeffkes, Horst; Seiler, Martina; Cortekar, Birgitta
 PA Henkel Kommanditgesellschaft Auf Aktien, Germany
 SO Eur. Pat. Appl., 33 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1430874	A2	20040623	EP 2003-28615	20031211
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	DE 10259849	A1	20040708	DE 2002-10259849	20021220
PRAI	DE 2002-10259849	A	20021220		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 1430874	ICM	A61K007-13

AB The invention concerns hair dyes that contain 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivs., especially 4-N,N-Bis(2-hydroxypropyl)amino-3-nitrophenol. The compns. further can contain direct dyes, surfactants, amino acids, oligopeptides, amines, N-containing heterocycles and aromatic hydroxyl compds. Thus a formulation included (weight/weight%): Texapon NSO 15.0; Lorol 5.0; Polychol 5 1.2; Dow Corning 345EU 0.1; Mirapol A15; Lipoxol 400 MED 5.0; Luviskol K30 0.5; sodium hydrogen carbonate 0.5; Nutralan Keratin W 0.3; 4-N,N-Bis(2-hydroxypropyl)amino-3-nitrophenol 0.4; Violet 1.4 D 0.2; Rodol 9R Base 0.2; HC Red 3 0.4; perfume 0.3; water to 96; propellant 4.0,.

ST direct hair dye bis hydroxypropylamino nitrophenol

- IT Alcohols, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(C12-18; use of 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivs. in hair dyeing compns.)
- IT Alcohols, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(C16-18, ethoxylated; use of 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivs. in hair dyeing compns.)
- IT Alcohols, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(C16-18; use of 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivs. in hair dyeing compns.)
- IT Surfactants
(amphoteric; use of 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivs. in hair dyeing compns.)
- IT Surfactants
(anionic; use of 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivs. in hair dyeing compns.)
- IT Surfactants
(cationic; use of 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivs. in hair dyeing compns.)
- IT Dyes
(direct; use of 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivs. in hair dyeing compns.)
- IT Hair preparations
(dyes; use of 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivs. in hair dyeing compns.)
- IT Castor oil
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(ethoxylated; use of 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivs. in hair dyeing compns.)
- IT Keratins
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hydrolyzates; use of 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivs. in hair dyeing compns.)
- IT Alcohols, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(lanolin, ethoxylated; use of 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivs. in hair dyeing compns.)
- IT Surfactants
(nonionic; use of 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivs. in hair dyeing compns.)
- IT Peptides, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(oligopeptides; use of 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivs. in hair dyeing compns.)
- IT Silk
(powdered, Silkall 100; use of 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivs. in hair dyeing compns.)
- IT Amino acids, biological studies
Phenols, biological studies
Polyoxyalkylenes, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(use of 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivs. in hair dyeing compns.)
- IT Protein hydrolyzates
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(wheat; use of 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivs. in hair dyeing compns.)

IT Surfactants

(zwitterionic; use of 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivs. in hair dyeing compns.)

IT 541-02-6, Dow Corning 345EU

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(Dow Corning 345EU; use of 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivs. in hair dyeing compns.)

IT 112-02-7, Dehyquart A 124-68-5, AMP 95 610-81-1D, 4-Amino-3-nitrophenol, N,N-Bis(monohydroxyalkyl) derivs. 632-99-5, Basic Violet 14 **633-96-5**, Acid Orange 7 **1064-48-8**, Acid Black 1 2390-60-5, Basic Blue 7 2784-89-6, HC red 1 2871-01-4, HC Red 3 3520-42-1, Acid Red 52 **3567-66-6**, Acid Red 33 4430-18-6, Acid Violet 43 4926-55-0, HC yellow 2 6358-09-4, Rodol 9R Base 9004-82-4, Texapon NSO 12270-25-6, Basic Red 51 25322-68-3, Lipoxol 400MED 26062-79-3, Merquat 100 **26381-41-9**, Basic Brown 16 32208-04-1, Dehyquart F75 33229-34-4, HC blue 2 33939-64-9, Akypo RLM 45N **53694-17-0**, Merquat 280 53988-60-6, Aminoxid WS 35 54381-08-7, HC orange 1 56932-44-6, HC yellow 5 61901-61-9, Basic Orange 31 63451-27-4, Mirapol A15 68123-13-7, Basic Blue 99 **68391-30-0**, Basic Red 76 68391-31-1, Basic Yellow 57 83138-08-3, Dehyton K 84041-77-0 92952-81-3, HC red BN 103300-27-2, Aminol A15 116844-55-4, Basic Yellow 87 **176742-32-8**, Basic Brown 17 625836-51-3

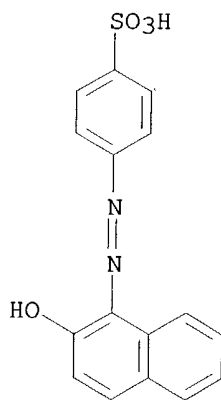
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(use of 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivs. in hair dyeing compns.)

IT **633-96-5**, Acid Orange 7 **1064-48-8**, Acid Black 1 **3567-66-6**, Acid Red 33 **26381-41-9**, Basic Brown 16 **53694-17-0**, Merquat 280 **68391-30-0**, Basic Red 76 **176742-32-8**, Basic Brown 17

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(use of 4-N,N-Bis(monohydroxyalkyl)amino-3-nitrophenol derivs. in hair dyeing compns.)

RN 633-96-5 HCAPLUS

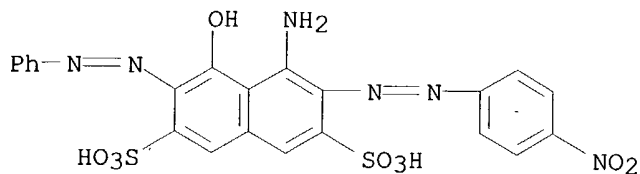
CN Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt (9CI) (CA INDEX NAME)



● Na

RN 1064-48-8 HCAPLUS

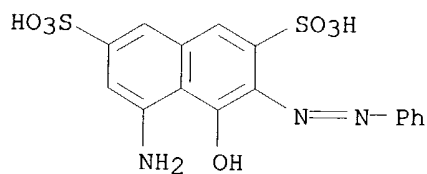
CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 3567-66-6 HCAPLUS

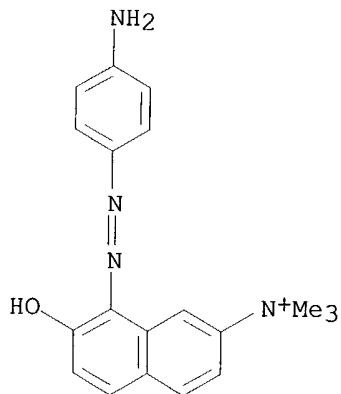
CN 2,7-Naphthalenedisulfonic acid, 5-amino-4-hydroxy-3-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 26381-41-9 HCAPLUS

CN 2-Naphthalenaminium, 8-[(4-aminophenyl)azo]-7-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

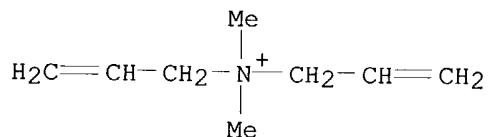


● Cl⁻

RN 53694-17-0 HCAPLUS
 CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
 2-propenoic acid (9CI) (CA INDEX NAME)

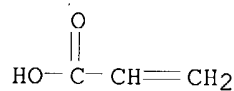
CM 1

CRN 7398-69-8
 CMF C8 H16 N . Cl

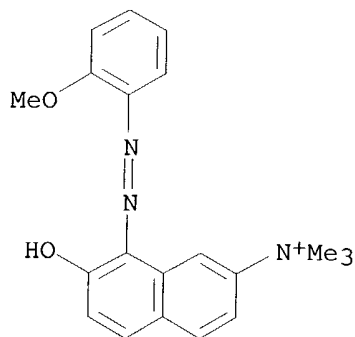


CM 2

CRN 79-10-7
 CMF C3 H4 O2

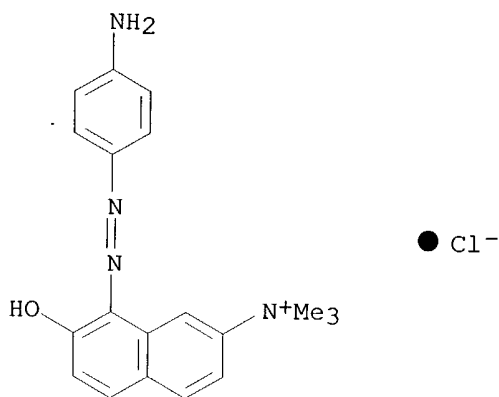


RN 68391-30-0 HCAPLUS
 CN 2-Naphthalenaminium, 7-hydroxy-8-[(2-methoxyphenyl)azo]-N,N,N-trimethyl-,
 chloride (9CI) (CA INDEX NAME)



RN 176742-32-8 HCAPLUS

CN 2-Naphthalenaminium, 8-[(4-aminonitrophenyl)azo]-7-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



D1-NO₂

L21 ANSWER 4 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2004:250648 HCAPLUS
 DN 140:275728
 ED Entered STN: 26 Mar 2004
 TI Temporary hair dye compositions containing anionic polymers
 IN Massoni, Jack
 PA USA
 SO U.S. Pat. Appl. Publ., 5 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 IC ICM A61K007-13
 NCL 008405000
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004055094	A1	20040325	US 2002-244275	20020916
	WO 2004024829	A1	20040325	WO 2003-US25672	20030818
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2002-244275	A	20020916		

CLASS

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

US 2004055094 ICM A61K007-13
NCL 008405000

AB A temporary hair dyeing composition which comprises: a cationic dye, a water-soluble anionic polymer, an alkaline agent., and water. Thus, a formulation contained water 92.680, Ultrez 10 1.000, methyl- and propylparaben 0.500, fragrance 0.200, Steareth 21 0.050, ethoxydiglycol 5.000, Basic Brown 17 0.050, Basic Red 57 0.010, Basic Yellow 57 0.010, and ethanolamine 0.500%.

ST hair dye anionic polymer

IT Polyelectrolytes
(anionic; temporary hair dye compns. containing anionic polymers)

IT Dyes
(cationic; temporary hair dye compns. containing anionic polymers)

IT Hair preparations
(dyes; temporary hair dye compns. containing anionic polymers)

IT Surfactants
(temporary hair dye compns. containing anionic polymers)

IT Polymers, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(water-soluble; temporary hair dye compns. containing anionic polymers)

IT 79-10-7D, **Acrylic** acid, esters, polymers 7748-27-8D, Vinyl isodecanoate, polymers with vinyl compds. 9002-92-0, Laureth 9005-00-9, Steareth 9005-38-3, Sodium alginate 9005-64-5, Polysorbate 20 12270-25-6, Basic Red 51 **25014-41-9D**, **Polyacrylonitrile**, hydrolyzed, compds. with triethanolamine **26381-41-9**, Basic Brown 16 50856-24-1D, polymers with vinyl compds. 50858-60-1D, polymers with vinyl compds. 52352-43-9D, Polyethylene glycol stearyl ether **methacrylate**, polymers with vinyl compds. 61901-61-9, Basic Orange 31 **65930-07-6**, **Acrylonitrile**-starch copolymer sodium salt **68025-34-3**, **Acrylonitrile**-starch copolymer potassium salt 68123-13-7, Basic Blue 99 **68391-30-0**, Basic Red 76 68391-31-1, Basic Yellow 57 75819-41-9D, polymers with vinyl compds. 102516-09-6D, polymers with vinyl compds. **116464-11-0D**, polymers with vinyl compds. 116844-55-4, Basic Yellow 87 **176742-32-8**, Basic Brown 17 195739-91-4, Ultrez 10 250241-42-0D, polymers with vinyl compds. **674304-22-4**, Sodium **acrylate**-vinyl isodecanoate copolymer 674305-80-7, Basic Red 57
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(temporary **hair dye** compns. containing anionic polymers)

IT 102-71-6, Triethanolamine, processes 124-68-5 141-43-5, Ethanolamine, processes 1310-73-2, Sodium hydroxide, processes
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)
(temporary hair dye compns. containing anionic polymers)

IT **25014-41-9D**, **Polyacrylonitrile**, hydrolyzed, compds. with triethanolamine **26381-41-9**, Basic Brown 16 **65930-07-6**, **Acrylonitrile**-starch copolymer sodium salt **68025-34-3**, **Acrylonitrile**-starch copolymer potassium salt **68391-30-0**, Basic Red 76 **116464-11-0D**, polymers with vinyl compds. **176742-32-8**, Basic Brown 17 **674304-22-4**, Sodium **acrylate**-vinyl isodecanoate copolymer
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(temporary **hair dye** compns. containing anionic polymers)

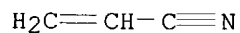
RN 25014-41-9 HCAPLUS

CN 2-Propenenitrile, homopolymer (9CI) (CA INDEX NAME)

CM 1

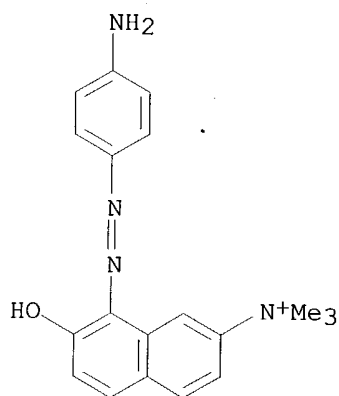
CRN 107-13-1

CMF C3 H3 N



RN 26381-41-9 HCAPLUS

CN 2-Naphthalenaminium, 8-[(4-aminophenyl)azo]-7-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 65930-07-6 HCAPLUS

CN Starch, polymer with 2-propenenitrile, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 37291-07-9

CMF (C3 H3 N . Unspecified)x

CCI PMS

CM 2

CRN 9005-25-8

CMF Unspecified

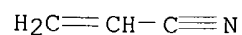
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

CRN 107-13-1

CMF C3 H3 N



RN 68025-34-3 HCAPLUS
CN Starch, polymer with 2-propenenitrile, potassium salt (9CI) (CA INDEX NAME)

CM 1

CRN 37291-07-9
CMF (C3 H3 N . Unspecified)x
CCI PMS

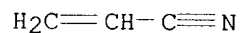
CM 2

CRN 9005-25-8
CMF Unspecified
CCI MAN

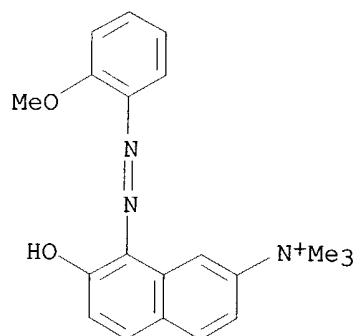
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

CRN 107-13-1
CMF C3 H3 N



RN 68391-30-0 HCAPLUS
CN 2-Naphthalenaminium, 7-hydroxy-8-[(2-methoxyphenyl)azo]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

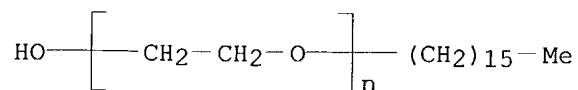


● Cl⁻

RN 116464-11-0 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-(3-carboxymethylene-1-oxopropyl)-ω-(hexadecyloxy)- (9CI) (CA INDEX NAME)

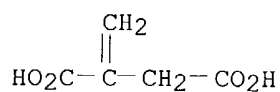
CM 1

CRN 9004-95-9
CMF (C2 H4 O)n C16 H34 O
CCI PMS

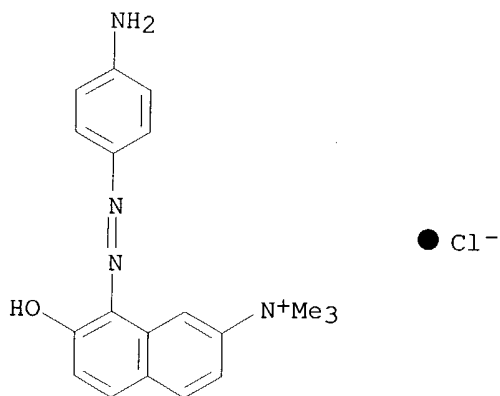


CM 2

CRN 97-65-4
CMF C5 H6 O4



RN 176742-32-8 HCAPLUS
CN 2-Naphthalenaminium, 8-[(4-aminonitrophenyl)azo]-7-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

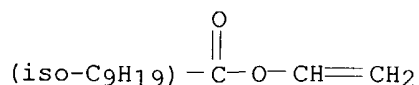


D1-NO2

RN 674304-22-4 HCAPLUS
CN Isodecanoic acid, ethenyl ester, polymer with sodium 2-propenoate (9CI)
(CA INDEX NAME)

CM 1

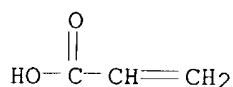
CRN 7748-27-8
CMF C12 H22 O2
CCI IDS



CM 2

CRN 7446-81-3

CMF C3 H4 O2 . Na



● Na

L21 ANSWER 5 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:945388 HCAPLUS
 DN 140:8444
 ED Entered STN: 04 Dec 2003
 TI Hair dye compositions containing amino silicones, glycol ethers, and water-soluble polymers
 IN Tsukahara, Yoshiyo
 PA Nikko Chemicals Co., Ltd., Japan; Nihon Surfactants Industry Co., Ltd.; Cosmo Technical Center Co., Ltd.
 SO Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003342137	A2	20031203	JP 2002-155139	20020529
PRAI	JP 2002-155139		20020529		

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	JP 2003342137	ICM	A61K007-13
AB	The compns., which show little hair damaging, scalp dyeing, good hair-conditioning effect, and color fastness, contain amino-modified silicones, disperse dyes and/or basic dyes, glycol ethers, and water-soluble polymers. A hair dye was prepared from HC Orange 1 0.5, Disperse Blue 3 0.5, KF 8018 1.5, SM 8702C 4.0, Et carbitol 5.0, EtOH 5.0, hydroxyethyl cellulose 2.0, and H2O to 100 weight%.		
ST	hair dye amino silicone glycol ether; water soluble polymer hair dye amino silicone; hydroxyethyl cellulose hair dye amino silicone		
IT	Polysiloxanes, biological studies		
	RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (amino-containing, KF 8018, SF 8451C; hair dyes containing amino silicones, glycol ethers, and water-soluble polymers)		

IT Dyes
 (basic; hair dyes containing amino silicones, glycol ethers, and water-soluble polymers)

IT Vinyl compounds, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (carboxy-containing, polymers; hair dyes containing amino silicones, glycol ethers, and water-soluble polymers)

IT Hair preparations
 (dyes; hair dyes containing amino silicones, glycol ethers, and water-soluble polymers)

IT Glycols, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (ethers; hair dyes containing amino silicones, glycol ethers, and water-soluble polymers)

IT Ethers, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (glycol; hair dyes containing amino silicones, glycol ethers, and water-soluble polymers)

IT Disperse dyes
 Human
 (hair dyes containing amino silicones, glycol ethers, and water-soluble polymers)

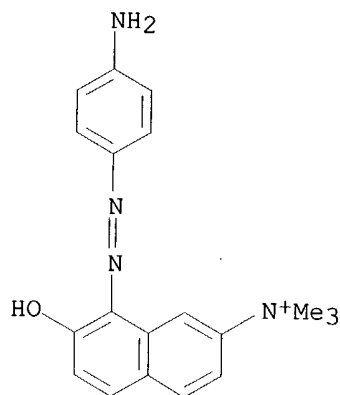
IT Polymers, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (water-soluble; hair dyes containing amino silicones, glycol ethers, and water-soluble polymers)

IT 111-90-0, Ethylcarbitol 2475-46-9, Disperse Blue 3 2871-01-4, HC Red 3 4926-55-0, HC Yellow 2 9004-62-0, Hydroxyethyl cellulose 9004-95-9, Polyoxyethylene cetyl ether 9004-98-2, Polyoxyethylene oleyl ether 25086-89-9, Vinyl acetate-vinylpyrrolidone copolymer **26381-41-9**, Basic Brown 16 26403-74-7 **30581-59-0**, N,N-Dimethylaminoethyl **methacrylate**-vinylpyrrolidone copolymer 54381-08-7, HC Orange 1 143711-48-2, SM 8702C 353506-28-2, C.I. Basic Blue 2
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair dyes containing amino silicones, glycol ethers, and water-soluble polymers)

IT **26381-41-9**, Basic Brown 16 **30581-59-0**, N,N-Dimethylaminoethyl **methacrylate**-vinylpyrrolidone copolymer
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair dyes containing amino silicones, glycol ethers, and water-soluble polymers)

RN 26381-41-9 HCAPLUS

CN 2-Naphthalenaminium, 8-[(4-aminophenyl)azo]-7-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

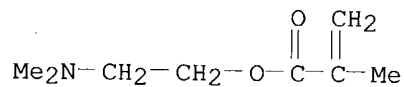


● Cl⁻

RN 30581-59-0 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with
 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

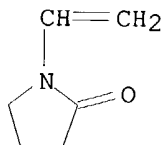
CM 1

CRN 2867-47-2
 CMF C8 H15 N O2



CM 2

CRN 88-12-0
 CMF C6 H9 N O



L21 ANSWER 6 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:685980 HCAPLUS
 DN 139:218936
 ED Entered STN: 03 Sep 2003
 TI Hair-dyeing and -styling preparations
 IN Sugimoto, Kenichi; Shinkai, Masakazu
 PA Kanebo, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003246714	A2	20030902	JP 2002-45812	20020222
PRAI	JP 2002-45812		20020222		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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JP 2003246714	ICM	A61K007-13
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AB Hair preps. contain basic dyes and amphoteric polymers. A foam composition containing 95 weight% raw liquid containing Basic Brown 16 0.1, Yukaformer SM

(N-

methacryloyloxyethyl-N,N-dimethylammonium- α -N-carboxybetaine-

methacrylate copolymer) 3.0, C black 0.1, EtOH 10.0, polyoxyethylene hydrogenated castor oil 0.5, polyoxyethylene lauryl ether 0.5, and H₂O to 100 weight% and 5 weight% liquefied petroleum gas showed gray hair-dyeing and hair-styling effects and did not stain the skin.

ST hair styling basic dye amphoteric polymer

IT Dyes

(basic; hair-dyeing and -styling preps. containing basic dyes and amphoteric polymers)

IT Hair preparations

(dyes, styling; hair-dyeing and -styling preps. containing basic dyes and amphoteric polymers)

IT Human

Pigments, nonbiological

(hair-dyeing and -styling preps. containing basic dyes and amphoteric polymers)

IT Carbon black, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(hair-dyeing and -styling preps. containing basic dyes and amphoteric polymers)

IT Quaternary ammonium compounds, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(polymers; hair-dyeing and -styling preps. containing basic dyes and amphoteric polymers)

IT 79-41-4D, **Methacrylic** acid, esters, polymers with N-

methacryloyloxyethyl-N,N-dimethylammonium- α ,N-

methylcarboxybetaine **5281-04-9**, Japan Red 202 **6448-95-9**

, Japan Red 404 12227-89-3, Black iron oxide **25136-75-8**,

Merquat 3330 **26381-41-9**, Basic Brown 16 **53694-17-0**,

Merquat 295 62723-61-9D, polymers with **methacrylates**

68123-13-7, Basic Blue 99 **68391-30-0**, Basic Red 76 68391-31-1,

Basic Yellow 57 **70801-07-9**, Amphomer 28-4910 **136372-47-9**

, Yukaformer AM 75 150104-73-7, Yukaformer SM **176742-32-8**,

Basic Brown 17 187620-28-6, Yukaformer 301 190976-47-7, Yukaformer W

314021-15-3, Yukaformer 205 357330-69-9, Yukaformer RFN

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(**hair-dyeing** and -styling preps. containing basic dyes and amphoteric polymers)

IT **5281-04-9**, Japan Red 202 **6448-95-9**, Japan Red 404

25136-75-8, Merquat 3330 **26381-41-9**, Basic Brown 16

53694-17-0, Merquat 295 **68391-30-0**, Basic Red 76

70801-07-9, Amphomer 28-4910 136372-47-9, Yukaformer AM

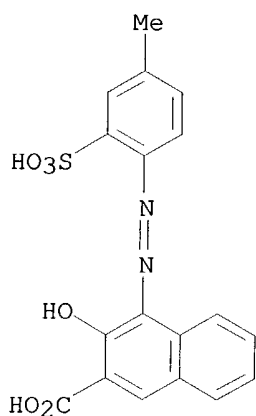
75 176742-32-8, Basic Brown 17

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(hair-dyeing and -styling preps. containing basic dyes and amphoteric polymers)

RN 5281-04-9 HCAPLUS

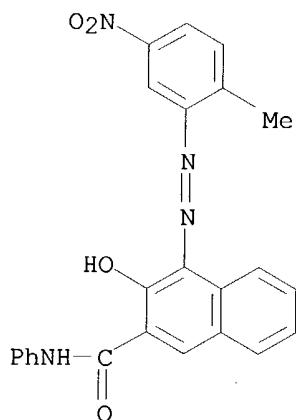
CN 2-Naphthalenecarboxylic acid, 3-hydroxy-4-[(4-methyl-2-sulfohenyl)azo]-, calcium salt (1:1) (9CI) (CA INDEX NAME)



● Ca

RN 6448-95-9 HCAPLUS

CN 2-Naphthalenecarboxamide, 3-hydroxy-4-[(2-methyl-5-nitrophenyl)azo]-N-phenyl- (9CI) (CA INDEX NAME)

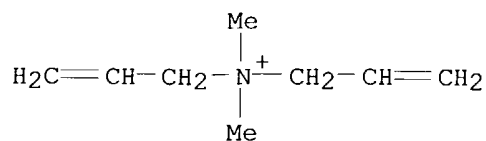


RN 25136-75-8 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)

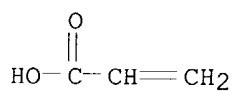
CM 1

CRN 7398-69-8
CMF C8 H16 N . Cl



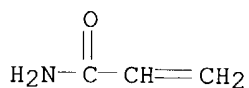
CM 2

CRN 79-10-7
CMF C3 H4 O2

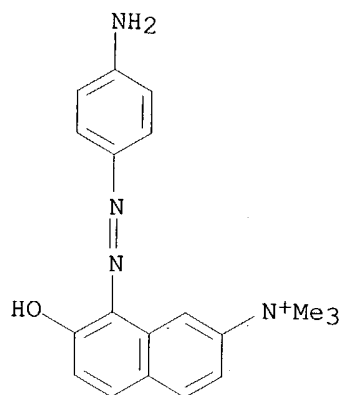


CM 3

CRN 79-06-1
CMF C3 H5 N O



RN 26381-41-9 HCAPLUS
CN 2-Naphthalenaminium, 8-[(4-aminophenyl)azo]-7-hydroxy-N,N,N-trimethyl-,
chloride (9CI) (CA INDEX NAME)

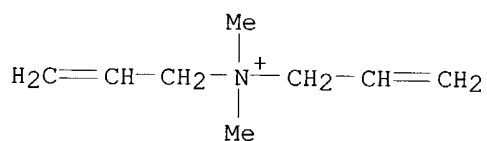


● Cl⁻

RN 53694-17-0 HCAPLUS
 CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

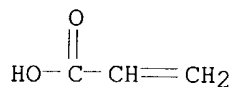
CRN 7398-69-8
 CMF C8 H16 N . Cl



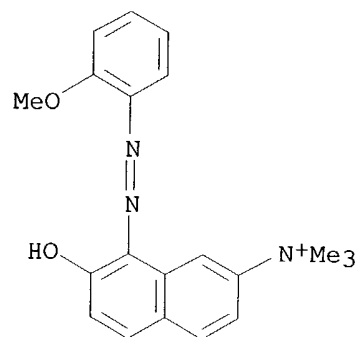
● Cl⁻

CM 2

CRN 79-10-7
 CMF C3 H4 O2



RN 68391-30-0 HCAPLUS
 CN 2-Naphthalenaminium, 7-hydroxy-8-[(2-methoxyphenyl)azo]-N,N,N-trimethyl-,
 chloride (9CI) (CA INDEX NAME)

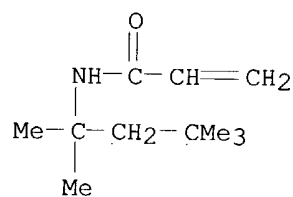


● Cl⁻

RN 70801-07-9 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-[(1,1-dimethylethyl)amino]ethyl ester, polymer with methyl 2-methyl-2-propenoate, 1,2-propanediol mono(2-methyl-2-propenoate), 2-propenoic acid and N-(1,1,3,3-tetramethylbutyl)-2-propenamide (9CI) (CA INDEX NAME)

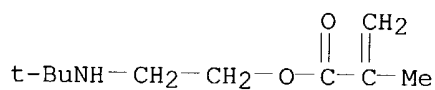
CM 1

CRN 4223-03-4
 CMF C11 H21 N O



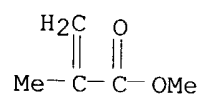
CM 2

CRN 3775-90-4
 CMF C10 H19 N O2



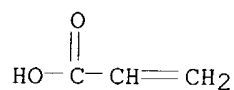
CM 3

CRN 80-62-6
 CMF C5 H8 O2



CM 4

CRN 79-10-7
CMF C3 H4 O2

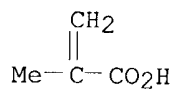


CM 5

CRN 27813-02-1
CMF C7 H12 O3
CCI IDS

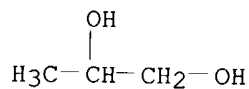
CM 6

CRN 79-41-4
CMF C4 H6 O2



CM 7

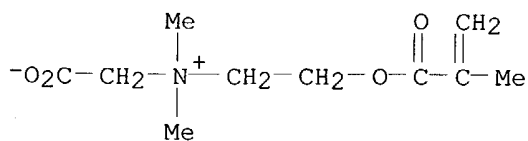
CRN 57-55-6
CMF C3 H8 O2



RN 136372-47-9 HCAPLUS
CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, inner salt, polymer with butyl 2-methyl-2-propenoate (9CI)
(CA INDEX NAME)

CM 1

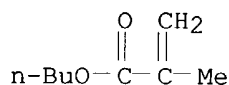
CRN 62723-61-9
CMF C10 H17 N O4



CM 2

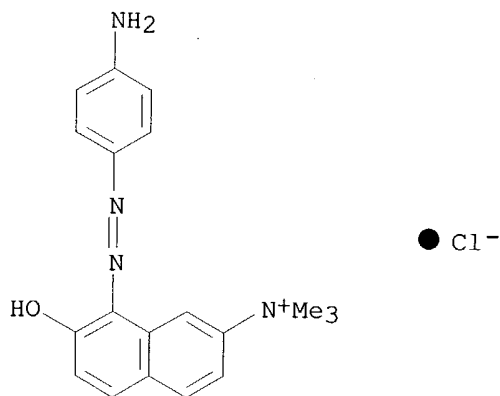
CRN 97-88-1

CMF C8 H14 O2



RN 176742-32-8 HCAPLUS

CN 2-Naphthalenaminium, 8-[(4-aminonitrophenyl)azo]-7-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



D1-NO2

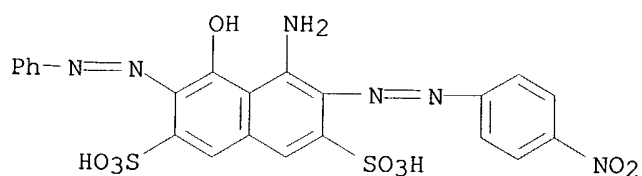
L21 ANSWER 7 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:610217 HCAPLUS
 DN 139:138357
 ED Entered STN: 08 Aug 2003
 TI Hair dyes containing acyl sulfonate surfactants and aliphatic alcohols
 IN Yoshida, Katsunori; Inoue, Haruhiko; Kinoshita, Koichi; Ochiai, Masatoshi;
 Hashimoto, Katsuo; Nakama, Yasunari
 PA Shiseido Company, Ltd., Japan
 SO PCT Int. Appl., 30 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and Cosmetics)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003063812	A1	20030807	WO 2002-JP586	20020128
	W: KR, US				
PRAI	WO 2002-JP586		20020128		

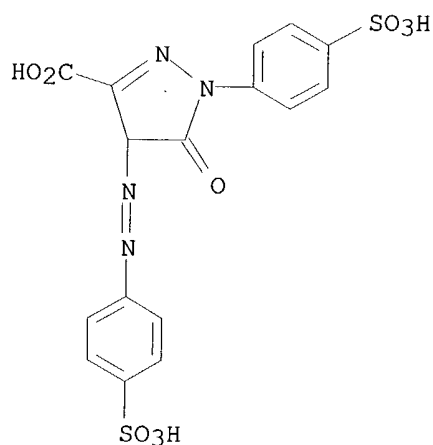
CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	WO 2003063812	ICM	A61K007-13
AB	A hair dye preparation contains (A) 0.1 to 10.0 weight% specific anionic surfactant of the long-chain acylsulfonic acid salt type, (B) 0.25 to 25.0 weight% aliphatic alc., and (C) an acid dye and/or natural pigment. This hair dye preparation is stable even in a strongly acidic region (pH, 1.5 to 4.5) where it shows a dyeing effect. It has a moderate viscosity and gives a good use feeling. Furthermore, removal of the preparation after use does not require much labor. For example, a hair dye (pH 2.5) contained Japan Black 401 0.2, Japan Purple 401 0.3, Japan Yellow 4 0.1, benzyl alc. 5, N-lauroyltaurine sodium 2, stearyl alc. 5, xanthan gum 1.5, Na polyacrylate 0.2, 1,3-butylene glycol 10, collagen hydrolyzates 0.2, citric acid 0.4, perfumes q.s., and ion-exchanged water balance to 100 %.		
ST	hair dye sulfonate surfactant aliph alc; lauroyltaurine stearyl acidic hair dye		
IT	Alcohols, biological studies		
	RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (C16-18; hair dyes containing acyl sulfonate surfactants and aliphatic alcs. for improved stability)		
IT	Hair preparations		
for	(dyes; hair dyes containing acyl sulfonate surfactants and aliphatic alcs. improved stability)		
IT	107-36-8D, Isethionic acid, cocoyl derivs., sodium salts 112-92-5, Stearyl alcohol 149-39-3, N-Stearoyl-N-methyltaurine sodium salt 661-19-8, Behenyl alcohol 1064-48-8 , Japan black 401 1934-21-0 , Japan yellow 4 4430-18-6, Japan purple 401 6148-77-2, N-Palmitoyltaurine sodium salt 29703-73-9, Sodium stearyl isethionate 36653-82-4, Cetyl alcohol 70609-66-4, N-Lauroyltaurine sodium salt 71316-64-8, N-Myristoyltaurine sodium salt RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (hair dyes containing acyl sulfonate surfactants and aliphatic alcs. for improved stability)		
RE.CNT	6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD		
RE			
	(1) Lg Chemical Co Ltd; KR 123072 B1 1997 HCAPLUS		
	(2) San-Ei Chemical Industries Ltd; JP 2001213737 A 2001 HCAPLUS		
	(3) San-Ei Chemical Industries Ltd; JP 2001213738 A 2001 HCAPLUS		
	(4) San-Ei Chemical Industries Ltd; JP 2001213739 A 2001 HCAPLUS		
	(5) San-Ei Chemical Industries Ltd; JP 200189335 A 2001		
	(6) San-Ei Chemical Industries Ltd; JP 20023344 A 2001		
IT	1064-48-8 , Japan black 401 1934-21-0 , Japan yellow 4 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (hair dyes containing acyl sulfonate surfactants and aliphatic alcs. for improved stability)		
RN	1064-48-8 HCAPLUS		
CN	2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)		



●2 Na

RN 1934-21-0 HCAPLUS
 CN 1H-Pyrazole-3-carboxylic acid, 4,5-dihydro-5-oxo-1-(4-sulfophenyl)-4-[(4-sulfophenyl)azo]-, trisodium salt (9CI) (CA INDEX NAME)

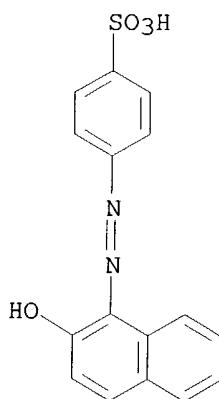


●3 Na

L21 ANSWER 8 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:424452 HCAPLUS
 DN 138:406586
 ED Entered STN: 03 Jun 2003
 TI Acidic hair dye bases containing polymers
 IN Takahashi, Masanobu; Ota, Toshio; Iketa, Hiroyuki
 PA Sanei Kagaku Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 17 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and Cosmetics)
 FAN.CNT 1

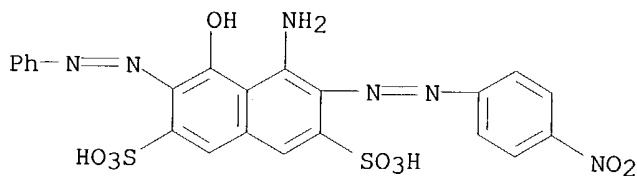
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003160452	A2	20030603	JP 2001-402139	20011126
PRAI	JP 2001-402139		20011126		
CLASS					

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2003160452	ICM	A61K007-13
AB	This invention relates to acidic hair dyes which show good adhesion to the hair, enough viscosity not to droop, and excellent combability. The hair dyes comprise acrylic acid-alkyl methacrylate copolymers, carboxyvinyl polymers, isopropanol, acidic dyes, and water. For example, a hair dye contained Pemulen TR-2 1.3, Carbopol 940 2, isopropanol 25, Japan Orange 205 0.3, Japan Violet 401 0.2, Japan Black 401 0.1, tartaric acid 1.5, KOH 0.7, myristyl alc. 1, benzyl alc. 7, dipropylene glycol 5, methylphenylpolysiloxane 0.5, disodium edetate 0.01, and water balance to 100 %.	
ST	acidic hair dye acrylate carboxyvinyl polymer	
IT	Vinyl compounds, biological studies RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (carboxy-containing, polymers; acidic hair dye bases containing carboxyvinyl polymers)	
IT	Hair preparations (dyes; acidic hair dye bases containing carboxyvinyl polymers)	
IT	67-63-0, Isopropanol, biological studies 632-68-8, Japan red 105 633-96-5 , Japan orange 205 846-70-8 1064-48-8 , Japan black 401 2611-82-7, Japan red 102 3844-45-9, Japan blue 1 4430-18-6, Japan violet 401 6358-69-6, Japan green 204 76050-42-5, Carbopol 940 89286-85-1, Hiviswako 104 96827-24-6, Carbopol 1342 145687-02-1, Pemulen TR-2 176429-87-1, Carbopol ETd 2020 192006-73-8, Aqupec HV 505 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (acidic hair dye bases containing carboxyvinyl polymers)	
IT	633-96-5 , Japan orange 205 1064-48-8 , Japan black 401 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (acidic hair dye bases containing carboxyvinyl polymers)	
RN	633-96-5 HCAPLUS	
CN	Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt (9CI) (CA INDEX NAME)	



● Na

RN 1064-48-8 HCAPLUS
 CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

L21 ANSWER 9 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:274688 HCAPLUS
 DN 138:275945
 ED Entered STN: 09 Apr 2003
 TI Containers for hair preparations containing basic dyes and hair products packed in the containers
 IN Shirai, Takayuki; Sakura, Masaaki
 PA Hoyu Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM B65D065-40
 ICS A45D034-00; A45D034-02; A61K007-13; B32B001-02
 CC 62-3 (Essential Oils and **Cosmetics**)
 Section cross-reference(s): 38

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2003104434	A2	20030409	JP 2001-301312	20010928
PRAI JP 2001-301312		20010928		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2003104434	ICM	B65D065-40
	ICS	A45D034-00; A45D034-02; A61K007-13; B32B001-02

AB The container to hold hair prepn. containing basic dyes has a basic dye-barrier layer, e.g. made of polymers such as polyethylene terephthalate or **polyacrylonitrile** which have low permeability to basic dyes or made of inorg. substances such as SiO₂, Al₂O₃, diamond-like C, etc. The container is free from coloration due to adsorption of the basic dyes and prevents reduction in dyeing power during storage. A PET bottle which had basic dye-barrier property was packed with a hair dye composition containing BASIC BLUE 3 0.3, hydroxyethyl cellulose 2.0, xanthan gum 0.3, EtOH 10, BASIC RED 76 0.05, BASIC BROWN 17 0.05%, and H₂O balance.

ST hair dye product basic die barrier container; PET bottle basic dye barrier hair prepn

IT Containers
 (basic dye-containing hair prepn. packed in containers having basic dye-barrier layer)

IT Polyesters, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (basic dye-containing hair prepns. packed in containers having basic dye-barrier layer)

IT Dyes
 (basic; basic dye-containing hair prepns. packed in containers having basic dye-barrier layer)

IT Dyes
 (cationic; basic dye-containing hair prepns. packed in containers having basic dye-barrier layer)

IT Hair preparations
 (dyes; basic dye-containing hair prepns. packed in containers having basic dye-barrier layer)

IT 1344-28-1, Alumina, biological studies 7429-90-5, Aluminum, biological studies 7631-86-9, Silica, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (basic dye-barrier layer; basic dye-containing hair prepns. packed in containers having basic dye-barrier layer)

IT **25014-41-9, Polyacrylonitrile** 25038-59-9, Poly(ethylene terephthalate), biological studies 55840-82-9, BASIC BLUE 3 **68391-30-0, BASIC RED 76 176742-32-8, BASIC BROWN 17**
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (basic dye-containing hair prepns. packed in containers having basic dye-barrier layer)

IT 7440-44-0, Diamond-like carbon, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (diamond-like, basic dye-barrier layer; basic dye-containing hair prepns. packed in containers having basic dye-barrier layer)

IT **25014-41-9, Polyacrylonitrile 68391-30-0, BASIC RED 76 176742-32-8, BASIC BROWN 17**
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (basic dye-containing hair prepns. packed in containers having basic dye-barrier layer)

RN 25014-41-9 HCAPLUS

CN 2-Propenenitrile, homopolymer (9CI) (CA INDEX NAME)

CM 1

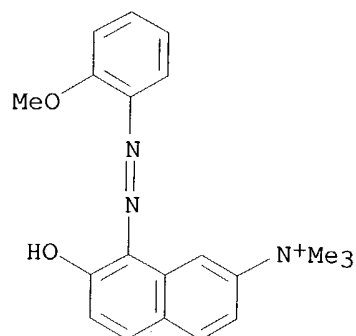
CRN 107-13-1

CMF C3 H3 N



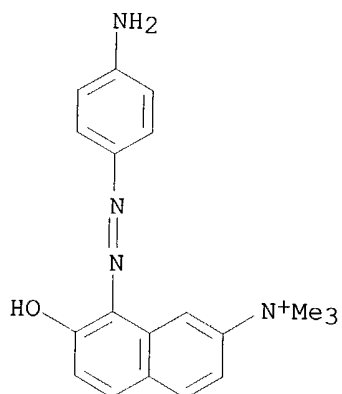
RN 68391-30-0 HCAPLUS

CN 2-Naphthalenaminium, 7-hydroxy-8-[(2-methoxyphenyl)azo]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 176742-32-8 HCAPLUS
 CN 2-Naphthalenaminium, 8-[(4-aminonitrophenyl)azo]-7-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

D1-NO₂

L21 ANSWER 10 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:35290 HCAPLUS
 DN 138:95211
 ED Entered STN: 15 Jan 2003
 TI Hair coloring composition and method
 IN Pollack, George
 PA Hair Marker LLC, USA
 SO U.S., 6 pp., Cont.-in-part of U.S. Ser. No. 568,830.
 CODEN: USXXAM
 DT Patent
 LA English
 IC ICM A61K007-13
 NCL 424070600; 424070100; 424401000; 424400000

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

CC 62-3 (Essential Oils and Cosmetics)
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6506374	B1	20030114	US 2000-675838	20000929
	EP 1172081	A1	20020116	EP 2001-111544	20010511
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002114654	A2	20020416	JP 2001-145404	20010515
	BR 2001002937	A	20040525	BR 2001-2937	20010717
PRAI	US 2000-568830	A2	20000511		
	US 2000-675838	A	20000929		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 6506374	ICM	A61K007-13
	NCL	424070600; 424070100; 424401000; 424400000
US 6506374	ECLA	A61K007/13

AB A hair coloring composition with a controlled viscosity to be reasonably free flowing yet not drip or cause build-up on the hair comprises a cationic direct dye or washable color in a liquid vehicle and a polymeric ruboff protector, e.g., a copolymer of vinyl pyrrolidone and vinyl acetate (PVP/VA). The dye or color is capable of directly applying color to hair without oxidation and at an alkaline pH and with controlled vapor pressure to have a predetd. rate of evaporation. For example, a specific formula for a very dark brown shade was given containing: Phase A - water 42.0%, PVP/VA (E 635) 2.00%, Crotein hydrotriticum 0.2%, and dimethicone copolyol DC 193 0.1%; Phase B - water 33.0%, Arianor Steel Blue 1.2%, Arianor Madder Red 0.3%, Arianor Straw Yellow 0.6%, Arianor Mahogany Brown 0.2%, and Arianor Sienna Brown 0.2%; Phase C - ethanol 20.0%; Phase D - triethanolamine as needed for pH = 8.0-8.5; and Phase E - Belmay perfume Silk 0.1%.

ST direct dye polymer ruboff protector hair coloring

IT Hair preparations
(dyes, cationic, direct; hair coloring composition containing cationic direct dye and polymeric ruboff protector)

IT Polymers, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(ruboff shields; hair coloring composition containing cationic direct dye and polymeric ruboff protector)

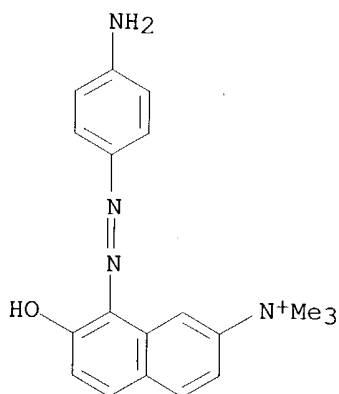
IT 64-17-5, Ethyl alcohol, biological studies 67-63-0, Isopropyl alcohol, biological studies 75-65-0, tert-Butyl alcohol, biological studies 78-92-2, 2-Butanol 477-73-6, **Lowacryl** Red 2 632-99-5, **Lowacryl** Violet 14 2390-59-2, **Lowacryl** Violet 4 25086-89-9, Vinyl acetate-vinylpyrrolidone copolymer **26381-41-9**, Arianor Mahogany 68123-13-7, Arianor Steel Blue **68391-30-0**, Arianor Madder Red 68391-31-1, Arianor Straw Yellow **176742-32-8**, Arianor Sienna Brown **226940-14-3**, Arianor Orange 389132-49-4, Arianor Crazy Gold 389132-51-8, Arianor Flame Red
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair coloring composition containing cationic direct dye and polymeric ruboff protector)

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

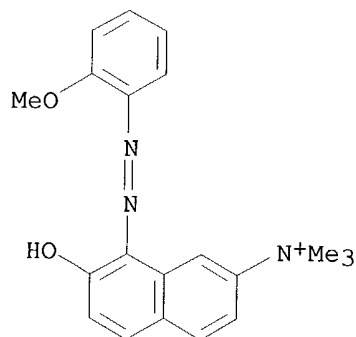
(1) Anon; DE 3246747 A 1984 HCAPLUS
(2) Anon; JP 62164612 A 1987 HCAPLUS
(3) Anon; WO 9744002 1997 HCAPLUS
(4) Braun; US 5409502 A 1995 HCAPLUS

- (5) Grit; US 5948124 A 1999 HCAPLUS
 (6) Hickling; US 20010003851 A1 2001
 (7) Kalopissis; US 3884625 A 1975 HCAPLUS
 (8) Sobel; US 5964226 A 1999
 IT 26381-41-9, Arianor Mahogany 68391-30-0, Arianor Madder
 Red 176742-32-8, Arianor Sienna Brown 226940-14-3,
 Arianor Orange
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair coloring composition containing cationic direct dye
 and polymeric ruboff protector)
 RN 26381-41-9 HCAPLUS
 CN 2-Naphthalenaminium, 8-[(4-aminophenyl)azo]-7-hydroxy-N,N,N-trimethyl-,
 chloride (9CI) (CA INDEX NAME)



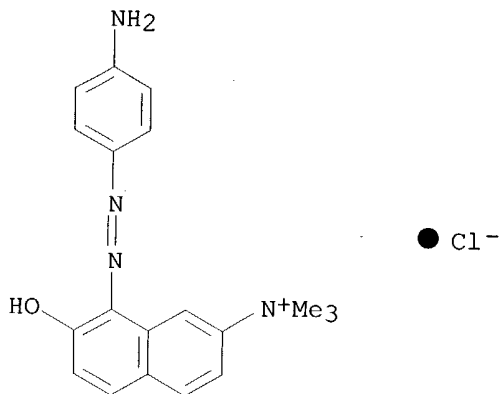
● Cl⁻

- RN 68391-30-0 HCAPLUS
 CN 2-Naphthalenaminium, 7-hydroxy-8-[(2-methoxyphenyl)azo]-N,N,N-trimethyl-,
 chloride (9CI) (CA INDEX NAME)



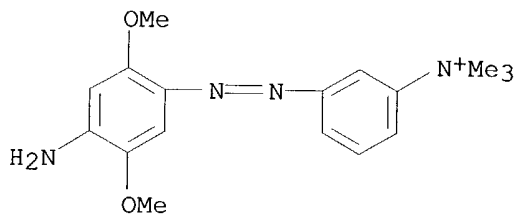
● Cl⁻

RN 176742-32-8 HCAPLUS
CN 2-Naphthalenaminium, 8-[(4-aminonitrophenyl)azo]-7-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



D1-NO₂

RN 226940-14-3 HCAPLUS
CN Benzenaminium, 3-[(4-amino-2,5-dimethoxyphenyl)azo]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

L21 ANSWER 11 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:964897 HCAPLUS
DN 138:28939
ED Entered STN: 20 Dec 2002
TI Hair relaxer and straightening compositions containing cationic dyes and emollients
IN Patel, Manilal; Nava, Melissa
PA USA
SO U.S. Pat. Appl. Publ., 6 pp.
CODEN: USXXCO
DT Patent
LA English
IC ICM A61K007-09

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

ICS A61K007-13
 NCL 424070200; 008426000
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002192175	A1	20021219	US 2001-837405	20010418
PRAI	US 2001-837405		20010418		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2002192175	ICM	A61K007-09
	ICS	A61K007-13
	NCL	424070200; 008426000

OS MARPAT 138:28939

AB A composition for straightening and relaxing hair, contains 0.1-10% one cationic dye, 1-7% an alkali relaxer, 7-25% an emulsifier, 10-32% an emollient, 5-15% a moisturizer, 0.5-3% a conditioning agent and 35-55% water. A single package hair relaxing-dye composition was prepared from the following composition: cetearyl alc. 8.00, cetyl alc. 1.62, Ceteareth-20 1.85, PEG-4 2.50, mineral oil 23.64, petrolatum 9.86, DEA-Oleth-10 phosphate 0.35, water 42.00, propylene glycol 2.95, LiOH 2.50, **polymethacrylamidopropyltrimonium** chloride 1.62, PEG-75 lanolin 0.98, benzyl alc. 1.00, Basic Blue-99 (Arianor Steel Blue) 0.50, Basic Red-76 (Arianor Madder Red) 0.18, tocopherol 0.01, and fragrance 0.40%.

ST cationic dye hair relaxer straightening; emollient dye hair relaxer straightening

IT Alcohols, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (C16-18, emulsifier; hair relaxer and straightening compns. containing cationic dyes and emollients)

IT Alcohols, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (C16-18, ethoxylated, emulsifier; hair relaxer and straightening compns. containing cationic dyes and emollients)

IT Dyes
 (cationic; hair relaxer and straightening compns. containing cationic dyes and emollients)

IT Hair preparations
 (conditioners; hair relaxer and straightening compns. containing cationic dyes and emollients)

IT Hair preparations
 (dyes; hair relaxer and straightening compns. containing cationic dyes and emollients)

IT Paraffin oils
 Petrolatum
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (emollient; hair relaxer and straightening compns. containing cationic dyes and emollients)

IT Cosmetics
 (emollients; hair relaxer and straightening compns. containing cationic dyes and emollients)

IT Lanolin
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (ethoxylated, emollient; hair relaxer and straightening compns. containing cationic dyes and emollients)

IT Emulsifying agents
 (hair relaxer and straightening compns. containing cationic dyes and emollients)

IT Alkali metal hydroxides
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair relaxer and straightening compns. containing cationic dyes and emollients)

IT Cosmetics
 (moisturizers; hair relaxer and straightening compns. containing cationic dyes and emollients)

IT Hair preparations
 (straighteners; hair relaxer and straightening compns. containing cationic dyes and emollients)

IT 64120-25-8, Guanidine hydroxide
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (activator; hair relaxer and straightening compns. containing cationic dyes and emollients)

IT **68039-13-4**
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (conditioner; hair relaxer and straightening compns. containing cationic dyes and emollients)

IT 36653-82-4, Cetyl alcohol 58855-63-3
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (emulsifier; hair relaxer and straightening compns. containing cationic dyes and emollients)

IT 1305-62-0, Calcium hydroxide, biological studies 1310-65-2, Lithium hydroxide 1310-73-2, Sodium hydroxide, biological studies **26381-41-9** 68123-13-7, Basic Blue 99 **68391-30-0**, Basic Red 76 **68391-32-2** **71134-97-9** 100224-74-6, Guanidine carbonate 478285-23-3 **478285-24-4**
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair relaxer and straightening compns. containing cationic dyes and emollients)

IT **68039-13-4**
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (conditioner; hair relaxer and straightening compns. containing cationic dyes and emollients)

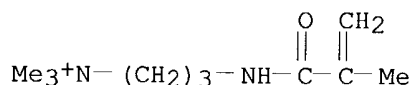
RN 68039-13-4 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(2-methyl-1-oxo-2-propenyl)amino]-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 51410-72-1

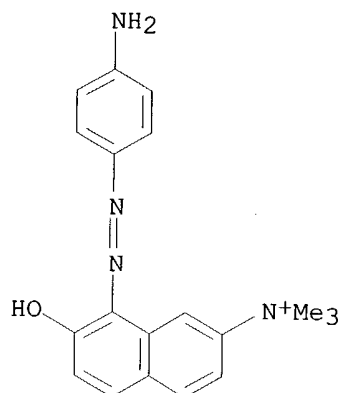
CMF C10 H21 N2 O . Cl



● Cl⁻

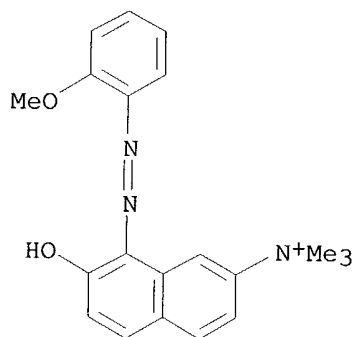
IT **26381-41-9** **68391-30-0**, Basic Red 76 **68391-32-2** **71134-97-9** **478285-24-4**
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair relaxer and straightening compns. containing cationic dyes and emollients)

RN 26381-41-9 HCAPLUS
CN 2-Naphthalenaminium, 8-[(4-aminophenyl)azo]-7-hydroxy-N,N,N-trimethyl-,
chloride (9CI) (CA INDEX NAME)



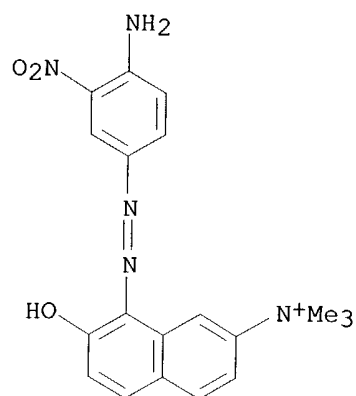
● Cl⁻

RN 68391-30-0 HCAPLUS
CN 2-Naphthalenaminium, 7-hydroxy-8-[(2-methoxyphenyl)azo]-N,N,N-trimethyl-,
chloride (9CI) (CA INDEX NAME)



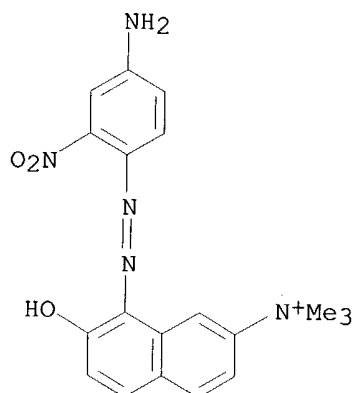
● Cl⁻

RN 68391-32-2 HCAPLUS
CN 2-Naphthalenaminium, 8-[(4-amino-3-nitrophenyl)azo]-7-hydroxy-N,N,N-trimethyl-,
chloride (9CI) (CA INDEX NAME)



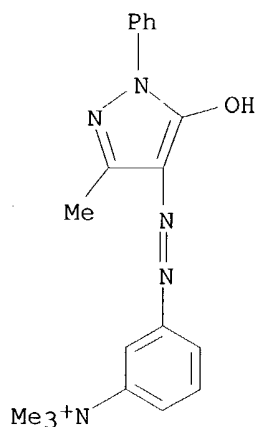
● Cl⁻

RN 71134-97-9 HCAPLUS
 CN 2-Naphthalenaminium, 8-[(4-amino-2-nitrophenyl)azo]-7-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 478285-24-4 HCAPLUS
 CN Benzenaminium, 3-[(5-hydroxy-3-methyl-1-phenyl-1H-pyrazol-4-yl)azo]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

L21 ANSWER 12 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:964157 HCAPLUS
 DN 138:28934
 ED Entered STN: 20 Dec 2002
 TI Dyeing composition for human keratinous fibers, with oxidation dyes and
 dicationic compounds
 IN Plos, Gregory; Samain, Henri
 PA L'oreal, Fr.
 SO PCT Int. Appl., 62 pp.
 CODEN: PIXXD2
 DT Patent
 LA French
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002100366	A2	20021219	WO 2002-FR1964	20020607
	WO 2002100366	A3	20040219		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,				
	PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,				
	UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,				
	TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,				
	CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,				
	BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	FR 2825623	A1	20021213	FR 2001-7680	20010612
	EP 1416908	A2	20040512	EP 2002-747518	20020607
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
	IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRAI	FR 2001-7680	A	20010612		
	WO 2002-FR1964	W	20020607		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2002100366	ICM	A61K007-13

OS MARPAT 138:28934

AB The invention concerns a dyeing composition for human keratinous fibers and more particularly hair, comprising in a suitable dyeing medium, at least an oxidation dye, and addnl. a diacationic compound. The invention also concerns the dyeing methods and device using said composition.

ST keratinous fiber hair dye dicationic compd

IT Dyes

(cationic, di-; dyeing composition for human keratinous fibers, with oxidation dyes and dicationic compds.)

IT Dyes

(direct; dyeing composition for human keratinous fibers, with oxidation dyes and dicationic compds.)

IT Oxidizing agents

(dyeing composition for human keratinous fibers, with oxidation dyes and dicationic compds.)

IT Hair preparations

(dyes, oxidative; dyeing composition for human keratinous fibers, with oxidation dyes and dicationic compds.)

IT Hair preparations

(dyes; dyeing composition for human keratinous fibers, with oxidation dyes and dicationic compds.)

IT 26062-79-3, Dimethyldiallylammonium chloride homopolymer

53694-17-0, Acrylic acid Dimethyldiallylammonium

chloride copolymer 163831-67-2 174514-06-8 178822-20-3

477952-17-3 477952-18-4 477952-19-5 477952-20-8 477952-21-9

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(dyeing composition for human keratinous fibers, with oxidation dyes and dicationic compds.)

IT 53694-17-0, Acrylic acid Dimethyldiallylammonium

chloride copolymer 163831-67-2

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(dyeing composition for human keratinous fibers, with oxidation dyes and dicationic compds.)

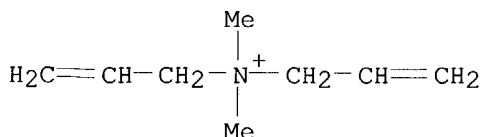
RN 53694-17-0 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

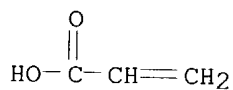
CMF C8 H16 N . Cl

● Cl⁻

CM 2

CRN 79-10-7

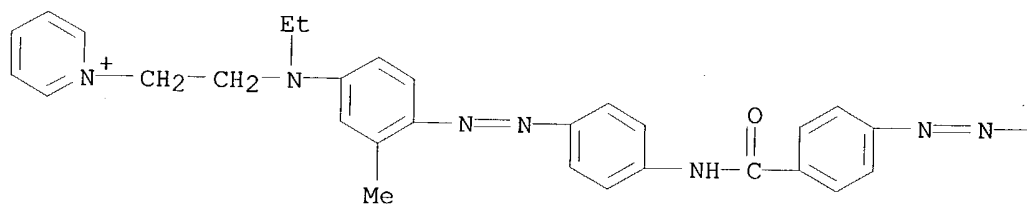
CMF C3 H4 O2



RN 163831-67-2 HCAPLUS

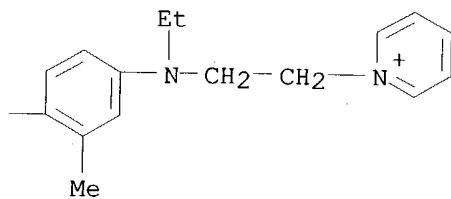
CN Pyridinium, 1-[2-[ethyl[4-[[4-[[4-[ethyl(2-pyridinioethyl)amino]-2-methylphenyl]azo]benzoyl]amino]phenyl]azo]-3-methylphenyl]amino]ethyl]-, dichloride (9CI) (CA INDEX NAME)

PAGE 1-A



● 2 Cl⁻

PAGE 1-B



L21 ANSWER 13 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:807271 HCAPLUS
DN 137:299542
ED Entered STN: 23 Oct 2002
TI Acidic hair dye creams
IN Yoshii, Shinichi; Nakaya, Yasuaki; Hiraumi, Takako
PA Takara Belmont Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM A61K007-13

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

CC 62-3 (Essential Oils and Cosmetics)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002308745	A2	20021023	JP 2001-110057	20010409
PRAI	JP 2001-110057		20010409		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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JP 2002308745	ICM	A61K007-13
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AB This invention relates to hair dyes which are stable and provide long-lasting colors with excellent use feel. The hair creams comprise acidic dyes, **polyacrylamide**, high-mol.-weight emulsifiers, polyoxyethylene lauryl ether, oils, benzyl alcs., and organic solvents. For example, a hair cream contained **polyacrylamide** 2, Pemulen TR-2 1, polyoxyethylene lauryl ether 0.3, light isoparaffins 3, benzyl alc. 7, propanol 15, cationic guar gum 0.1, Japan Black 401 0.1, Japan Violet 401 0.1, Japan Orange 205 0.3, lactic acid/Na lactate q.s. to pH 3, and distilled water balance to 100 %.

ST hair dye cream **polyacrylamide** benzyl alc

IT Isoalkanes

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(acidic hair dye creams)

IT Alcohols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(benzyl; acidic hair dye creams)

IT Hair preparations

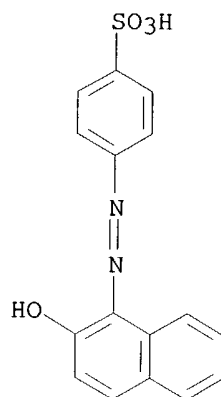
(dyes; acidic hair dye creams)

IT 71-23-8, Propanol, biological studies 100-51-6, Benzyl alcohol, biological studies **633-96-5**, Japan orange 205 **1064-48-8**, Japan Black 401 4430-18-6, Japan Violet 401 9002-92-0, Polyoxyethylene lauryl ether **9003-05-8**, **Polyacrylamide** 145687-02-1, Pemulen TR-2

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(acidic **hair dye** creams)IT **633-96-5**, Japan orange 205 **1064-48-8**, Japan Black 401**9003-05-8**, **Polyacrylamide**RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(acidic **hair dye** creams)

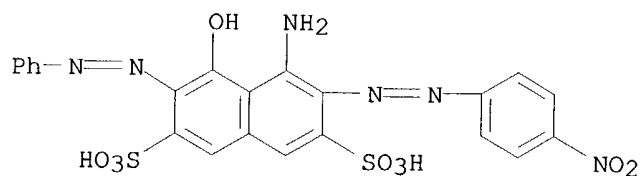
RN 633-96-5 HCAPLUS

CN Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt (9CI) (CA INDEX NAME)



● Na

RN 1064-48-8 HCAPLUS
CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)

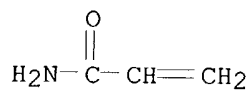


●2 Na

RN 9003-05-8 HCAPLUS
CN 2-Propenamide, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 79-06-1
CMF C3 H5 N O



L21 ANSWER 14 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:773592 HCAPLUS
DN 137:299524
ED Entered STN: 11 Oct 2002
TI Direct hair dyes containing **acrylamide-sodium**

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

acryloyldimethyltaurate copolymer as thickening agent

PA Wella A.-G., Germany

SO Ger. Gebrauchsmusterschrift, 12 pp.

CODEN: GGXXFR

DT Patent

LA German

IC ICM A61K007-13

CC 62-3 (Essential Oils and **Cosmetics**)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 20207896	U1	20021010	DE 2002-20207896	20020522
	JP 2004043431	A2	20040212	JP 2003-99980	20030403
PRAI	DE 2002-20207896	U	20020522		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
DE 20207896	ICM	A61K007-13
JP 2004043431	FTERM	4C083/AC011; 4C083/AC012; 4C083/AC102; 4C083/AC121; 4C083/AC122; 4C083/AC151; 4C083/AC152; 4C083/AC441; 4C083/AC791; 4C083/AC792; 4C083/AC811; 4C083/AC812; 4C083/AC841; 4C083/AC842; 4C083/AC851; 4C083/AC852; 4C083/AD071; 4C083/AD072; 4C083/AD211; 4C083/AD282; 4C083/BB24; 4C083/CC36; 4C083/DD31; 4C083/DD41; 4C083/EE26

AB The invention concerns hair dyes that contain acidic dyes and **acrylamide-sodium acryloyldimethyltaurate** copolymer as thickening agent. The dye compns. further contain benzylalc. and/or propyleneglycol, an isoparaffin, a nonionic surfactant, especially polyethylene(20)sorbitan monooleate and a polyglucoside. Thus a hair dye contained (weight/weight%): D&C Red Nr.6 0.1; SIMULGEL 600 4.0; benzylalc. 9.0; Plantacare 818UP 1.0; hydroxyethyl cellulose 0.5; perfume 0.3; 1,2-propylene glycol 10.0; ethanol 5.0; water to 100.

ST direct hair dye thickening agent crylamide sodium

acryloyldimethyltaurate copolymer

IT Glycosides

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(alkyl polyglycosides; direct hair dyes containing **acrylamide**-sodium **acryloyldimethyltaurate** copolymer as thickening agent)

IT Thickening agents

(direct hair dyes containing **acrylamide-sodium acryloyldimethyltaurate** copolymer as thickening agent)

IT Isoalkanes

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(direct hair dyes containing **acrylamide-sodium acryloyldimethyltaurate** copolymer as thickening agent)

IT Dyes

(direct; direct hair dyes containing **acrylamide-sodium acryloyldimethyltaurate** copolymer as thickening agent)

IT Hair preparations

(dyes; direct hair dyes containing **acrylamide-sodium acryloyldimethyltaurate** copolymer as thickening agent)

IT Surfactants

(nonionic; direct hair dyes containing **acrylamide-sodium acryloyldimethyltaurate** copolymer as thickening agent)

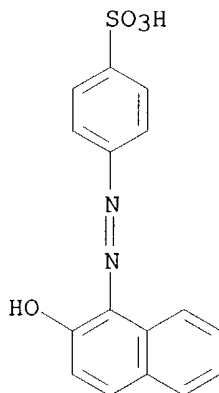
IT 57-55-6, 1,2-Propylene glycol, biological studies 100-51-6,
Benzenemethanol, biological studies **633-96-5**, Acid Orange 7
846-70-8, Acid Yellow 1 2611-82-7, Acid Red 18 3520-42-1, Acid Red 52

4430-18-6, Acid Violet 43 **5858-81-1** 9005-65-6, Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.
38193-60-1, SIMULGEL 600 217087-75-7, Plantacare 818UP
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (direct **hair dyes** containing **acrylamide**
 -sodium **acryloyldimethyltaurate** copolymer as thickening agent)

IT **633-96-5**, Acid Orange 7 **5858-81-1** **38193-60-1**, SIMULGEL 600
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (direct **hair dyes** containing **acrylamide**
 -sodium **acryloyldimethyltaurate** copolymer as thickening agent)

RN 633-96-5 HCAPLUS

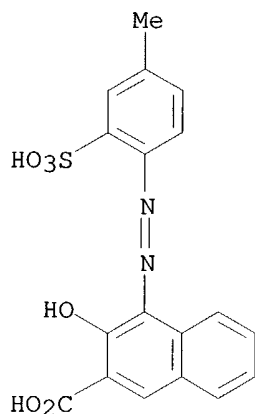
CN Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt (9CI) (CA INDEX NAME)



● Na

RN 5858-81-1 HCAPLUS

CN 2-Naphthalenecarboxylic acid, 3-hydroxy-4-[(4-methyl-2-sulfophenyl)azo]-, disodium salt (9CI) (CA INDEX NAME)



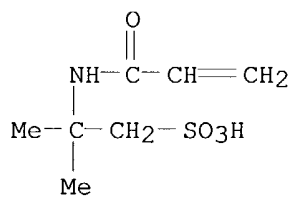
● 2 Na

RN 38193-60-1 HCAPLUS
 CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-, monosodium salt, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 5165-97-9

CMF C7 H13 N O4 S . Na

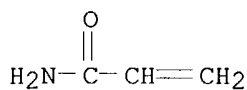


● Na

CM 2

CRN 79-06-1

CMF C3 H5 N O



L21 ANSWER 15 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

AN 2002:607625 HCAPLUS
 DN 137:145197
 ED Entered STN: 14 Aug 2002
 TI Acidic hair dyes containing viscosity enhancers
 IN Kito, Naoshi; Morita, Kenichi
 PA Nonogawa Shoji Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and Cosmetics)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002226335	A2	20020814	JP 2001-26509	20010202
PRAI	JP 2001-26509		20010202		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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JP 2002226335	ICM	A61K007-13
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AB This invention relates to hair dye compns. which provide excellent dye affinity and smooth colored hair. The hair dyes comprise (1) sclerotium gum 0.05-50 % and (2) **acrylic** acid-alkyl **methacrylate** copolymer 0.1-15 %. For example, a hair dye contained sclerotium gum 2, **acrylic** acid-alkyl **methacrylate** copolymer 1.5, benzyl alc. 10, glycolic acid q.s., Japan Orange 205 0.4, and water balance to 100 %.

ST hair dye sclerotium gum **polyacrylate** thickener

IT Thickening agents
 (acidic hair dyes containing viscosity enhancers)

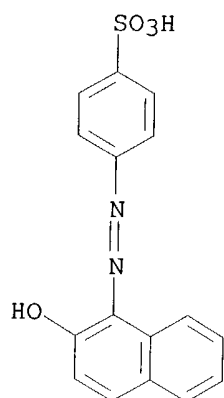
IT Hair preparations
 (dyes; acidic hair dyes containing viscosity enhancers)

IT 79-10-7D, **Acrylic** acid, copolymers with alkyl **methacrylate** 79-41-4D, **Methacrylic** acid, alkyl esters, copolymers with **acrylate** 633-96-5, Japan Orange 205 39464-87-4, Sclerotium gum
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (acidic **hair dyes** containing viscosity enhancers)

IT 633-96-5, Japan Orange 205
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (acidic **hair dyes** containing viscosity enhancers)

RN 633-96-5 HCAPLUS

CN Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt (9CI) (CA INDEX NAME)



● Na

L21 ANSWER 16 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:607624 HCAPLUS
 DN 137:145196
 ED Entered STN: 14 Aug 2002
 TI Acidic hair dyes containing polymers to improve dyeability
 IN Osato, Hiroyasu
 PA Arimino Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002226334	A2	20020814	JP 2001-21956	20010130
PRAI	JP 2001-21956		20010130		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2002226334	ICM	A61K007-13

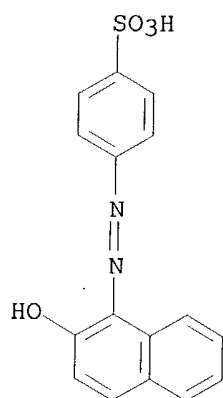
AB This invention relates to hair dyes which provide easy handling and long-lasting colors. The hair dyes comprise 1-vinyl-2-pyrrolidone copolymers with 2-**acrylamido**-2-methylpropanesulfonate derivs. For example, a hair dye contained Aristoflex AVC 4, Japan Black 401 0.2, Japan Violet 401 0.1, Japan Orange 205 0.2, benzyl alc. 7.5, ethanol 15, lactic acid q.s. to pH 2.8, and water balance to 100 %.

ST hair dye vinylpyrrolidone **acrylamidomethylpropanesulfonate** copolymer

IT Hair preparations
 (dyes; acidic hair dyes containing vinyl polymers to improve dyeability)

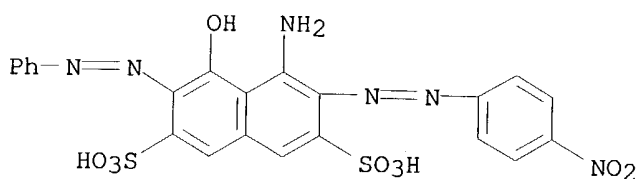
IT 100-51-6, Benzyl alcohol, biological studies **633-96-5**, Japan Orange 205 **1064-48-8**, Japan Black 401 4430-18-6, Japan Violet 401 **335383-60-3**, Aristoflex AVC

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (acidic **hair dyes** containing vinyl polymers to improve
dyeability)
 IT 633-96-5, Japan Orange 205 1064-48-8, Japan Black 401
 335383-60-3, Aristoflex AVC
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (acidic **hair dyes** containing vinyl polymers to improve
dyeability)
 RN 633-96-5 HCAPLUS
 CN Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt
 (9CI) (CA INDEX NAME)



● Na

RN 1064-48-8 HCAPLUS
 CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



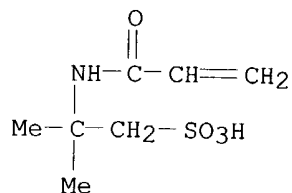
●2 Na

RN 335383-60-3 HCAPLUS
 CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-, monoammonium salt, polymer with 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 58374-69-9

CMF C7 H13 N O4 S . H3 N

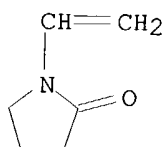


● NH₃

CM 2

CRN 88-12-0

CMF C6 H9 N O



L21 ANSWER 17 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:553059 HCAPLUS
 DN 137:98675
 ED Entered STN: 26 Jul 2002
 TI Hair dye composition comprising direct dyes, quaternary ammonium compounds, and cationic polymers
 IN Grit, Mustafa
 PA Goldwell GmbH, Germany
 SO Eur. Pat. Appl., 11 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 IC ICM A61K007-13
 CC 62-4 (Essential Oils and Cosmetics)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1224927	A1	20020724	EP 2002-1025	20020117
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	DE 10101946	A1	20020801	DE 2001-10101946	20010117
	JP 2002249419	A2	20020906	JP 2002-5607	20020115
PRAI	DE 2001-10101946	A	20010117		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 1224927	ICM	A61K007-13
EP 1224927	ECLA	A61K008/34; A61K008/41L; A61Q005/10

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

- DE 10101946 ECLA A61K008/34; A61K008/41L; A61Q005/10
- AB The invention concerns hair dyes that contain direct dyes, long-chain quaternary ammonium compds., cationic polymers, nonionic, amphoteric or zwitterionic polymers, ethanol, propanol or isopropanol and water. The dyes are packaged in a transparent container. Thus a dye contained (weight/weight%): dimethicone copolyol 1.50; cetrimonium chloride 0.80; ethanol 15.00; polyvinylpyrrolidone 0.50; propylene carbonate 15.00; lactic acid (90%) 5.00; sodium hydroxide (32%) 0.20; polyquaternium 6 0.60; quaternary **dimethylaminoethylmethacrylate** homopolymer 3.50; Acid Orange 7 0.15; Acid Yellow 3 0.10; Acid Violet 43 0.25; water to 100.
- ST direct hair dye compn quaternary ammonium compd cationic polymer
- IT Polyelectrolytes
(amphoteric; hair dye composition comprising direct dyes, quaternary ammonium compds., and cationic polymers)
- IT Polyelectrolytes
(cationic; hair dye composition comprising direct dyes, quaternary ammonium compds., and cationic polymers)
- IT Polyoxalkylenes, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(di-Me, Me hydrogen polysiloxane-; hair dye composition comprising direct dyes, quaternary ammonium compds., and cationic polymers)
- IT Polysiloxanes, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(di-Me, Me hydrogen, polyoxalkylene-; hair dye composition comprising direct dyes, quaternary ammonium compds., and cationic polymers)
- IT Dyes
(direct; hair dye composition comprising direct dyes, quaternary ammonium compds., and cationic polymers)
- IT Hair preparations
(dyes; hair dye composition comprising direct dyes, quaternary ammonium compds., and cationic polymers)
- IT Transparency
Viscosity
(hair dye composition comprising direct dyes, quaternary ammonium compds., and cationic polymers)
- IT Polymers, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair dye composition comprising direct dyes, quaternary ammonium compds., and cationic polymers)
- IT Quaternary ammonium compounds, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(long-chain; hair dye composition comprising direct dyes, quaternary ammonium compds., and cationic polymers)
- IT Polyelectrolytes
(zwitterionic; hair dye composition comprising direct dyes, quaternary ammonium compds., and cationic polymers)
- IT 64-17-5, Ethanol, biological studies 67-63-0, Isopropanol, biological studies 71-23-8, Propanol, biological studies 108-32-7, Propylene carbonate 112-02-7, Cetrimonium chloride 112-03-8, Stearyltrimethyl ammonium chloride 632-99-5, Basic Violet 14 **633-96-5**, Acid Orange 7 2784-89-6, HC-Red 1 4065-45-6, Benzophenone-4 4430-18-6, Acid Violet 43 8004-92-0, Acid Yellow 3 9003-39-8, Polyvinylpyrrolidone 25086-89-9, Vinylacetate-vinylpyrrolidone copolymer 26062-79-3, Polyquaternium 6 **26161-33-1** **26381-41-9**, Basic Brown 16 68123-13-7, Basic Blue 99 **68391-30-0**, Basic Red 76 68391-31-1, Basic Yellow 57 81859-24-7, Polyquaternium-10 92183-41-0, Polyquaternium-4 473664-54-9, Salcare SC 96
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(**hair dye** composition comprising direct **dyes**,

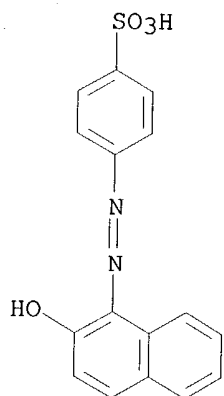
quaternary ammonium compds., and cationic polymers)
 RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 RE

- (1) Canivet, P; US 4820308 A 1989 HCAPLUS
- (2) Goldwell Gmbh; DE 19735851 A 1999 HCAPLUS
- (3) Joh Andre Sebald Gmbh; DE 2151131 A 1973 HCAPLUS
- (4) Kao Corp; EP 0470381 A 1992 HCAPLUS
- (5) Kao Corp; EP 0503507 A 1992 HCAPLUS

IT 633-96-5, Acid Orange 7 26161-33-1 26381-41-9,
 Basic Brown 16 68391-30-0, Basic Red 76
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair dye composition comprising direct dyes,
 quaternary ammonium compds., and cationic polymers)

RN 633-96-5 HCAPLUS

CN Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt
 (9CI) (CA INDEX NAME)



● Na

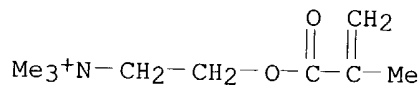
RN 26161-33-1 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-,
 chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1

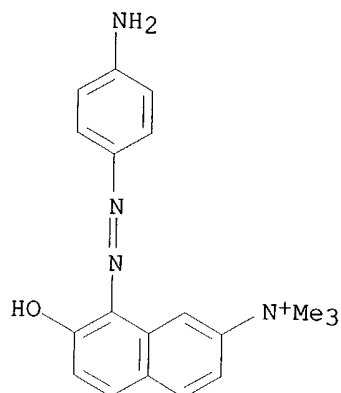
CMF C9 H18 N O2 . Cl



● Cl⁻

RN 26381-41-9 HCAPLUS

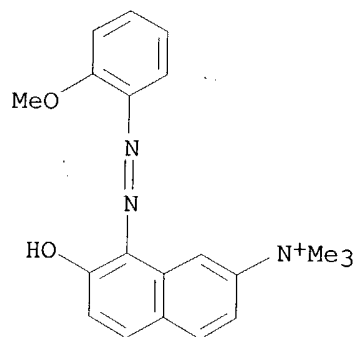
CN 2-Naphthalenaminium, 8-[(4-aminophenyl)azo]-7-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 68391-30-0 HCAPLUS

CN 2-Naphthalenaminium, 7-hydroxy-8-[(2-methoxyphenyl)azo]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

L21 ANSWER 18 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:47499 HCAPLUS

DN 136:107197

ED Entered STN: 18 Jan 2002

TI Hair coloring composition containing a semipermanent cationic dye and a polymer

IN Pollack, George

PA Hairmaker Llc (A Delaware Corp.), USA

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

SO Eur. Pat. Appl., 12 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1172081	A1	20020116	EP 2001-111544	20010511
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 6506374	B1	20030114	US 2000-675838	20000929
PRAI	US 2000-568830	A	20000511		
	US 2000-675838	A	20000929		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 1172081	ICM	A61K007-13
US 6506374	ECLA	A61K007/13

AB A hair coloring composition for flow by capillary action comprises a hair substantive direct dye or washable color, i.e., a cationic semipermanent dye, in a liquid vehicle with controlled vapor pressure to have a predetd. rate of evaporation, and an optional polymeric ruboff protector component for preventing ruboff of the color of the direct dye. The composition has a controlled viscosity to be reasonably free flowing yet not drip or cause build-up on the hair. For example, a hair coloring composition contained (by weight) four phases corresponding to the process steps used in their manufacture:

Phase A - water 40-50%, PVA/VA copolymer 2-4%, Crotein Hydrotritricum QN (a cationic protein for conditioning) 0.05-0.5%, Dow Corning silicone 193 (for shine) 0.05-0.5%, Triethanolamine (ph adjuster) as needed to pH 8.5; Phase B - water 35-40%, Arianor Steel Blue 0.05-2.0%, Arianor Madder Red 0.1-1.0%, Arianor Straw Yellow 0.05-1.0%, Arianor Crazy Gold 0.05-0.7%, Arianor Flame Red 0.05-0.7%, Arianor Orange 0.05-0.7%, Arianor Sienna Brown 0.05-1.0%, **Lowacryl** Violet 4 0.05-0.3%, **Lowacryl** Violet 14 0.05-0.3%, **Lowacryl** Red 2 0.05-0.3%; Phase C - ethanol 10-20%; Phase D - perfume 0.05-0.2%.

ST cationic semipermanent hair dye polymer ruboff protector
 IT Dyes

(cationic; hair coloring composition containing semipermanent cationic dye and polymeric ruboff protector)

IT Dyes
 (diphenyldiamine; hair coloring composition containing semipermanent cationic dye and polymeric ruboff protector)

IT Dyes
 (direct; hair coloring composition containing semipermanent cationic dye and polymeric ruboff protector)

IT Hair preparations
 (dyes; hair coloring composition containing semipermanent cationic dye and polymeric ruboff protector)

IT Anthraquinone dyes
 Azo dyes
 Viscosity
 (hair coloring composition containing semipermanent cationic dye and polymeric ruboff protector)

- IT Detergents
Surfactants
(hair coloring composition containing semipermanent cationic dye and polymeric ruboff protector free of surfactants or detergents)
- IT Dyes
(nitro; hair coloring composition containing semipermanent cationic dye and polymeric ruboff protector)
- IT Vinyl compounds, biological studies
RL: COS (Cosmetic use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)
(polymers; hair coloring composition containing semipermanent cationic dye and polymeric ruboff protector)
- IT Dyes
(quinone-imine containing quaternary ammonium group; hair coloring composition containing semipermanent cationic dye and polymeric ruboff protector)
- IT Alcohols, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(solvents; hair coloring composition containing semipermanent cationic dye and polymeric ruboff protector)
- IT 68391-30-0, C.I. Basic Red 76
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(Arianor Madder Red; **hair** coloring composition containing semipermanent cationic **dye** and polymeric ruboff protector)
- IT 26381-41-9, C.I. Basic Brown 16
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(Arianor Mahogany; **hair** coloring composition containing semipermanent cationic **dye** and polymeric ruboff protector)
- IT 226940-14-3, Arianor Orange
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(Arianor Orange; **hair** coloring composition containing semipermanent cationic **dye** and polymeric ruboff protector)
- IT 176742-32-8, C.I. Basic Brown 17
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(Arianor Sienna Brown; **hair** coloring composition containing semipermanent cationic **dye** and polymeric ruboff protector)
- IT 68123-13-7, C.I. Basic Blue 99
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(Arianor Steel Blue; hair coloring composition containing semipermanent cationic dye and polymeric ruboff protector)
- IT 68391-31-1, C.I. Basic Yellow 57
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(Arianor Straw Yellow; hair coloring composition containing semipermanent cationic dye and polymeric ruboff protector)
- IT 477-73-6, **Lowacryl** Red 2
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(**Lowacryl** Red 2; hair coloring composition containing semipermanent cationic dye and polymeric ruboff protector)
- IT 632-99-5, **Lowacryl** Violet 14
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(**Lowacryl** Violet 14; hair coloring composition containing semipermanent cationic dye and polymeric ruboff protector)
- IT 2390-59-2, **Lowacryl** Violet 4
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(**Lowacryl** Violet 4; hair coloring composition containing semipermanent

cationic dye and polymeric ruboff protector)

IT 75-65-0, tert-Butyl alcohol, biological studies 78-92-2, 2-Butanol
25265-75-2, Butylene glycol **68391-32-2** 389132-49-4, Arianor
Crazy Gold 389132-51-8, Arianor Flame Red
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(**hair** coloring composition containing semipermanent cationic
dye and polymeric ruboff protector)

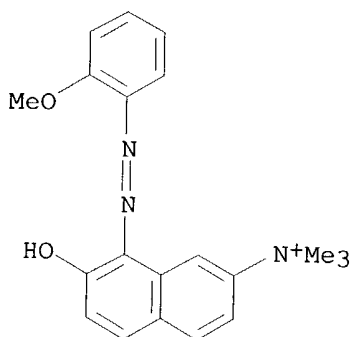
IT 25086-89-9, Vinyl acetate-vinyl pyrrolidone copolymer
RL: COS (Cosmetic use); MOA (Modifier or additive use); BIOL (Biological
study); USES (Uses)
(hair coloring composition containing semipermanent cationic dye and
polymeric
ruboff protector)

IT 64-17-5, Ethyl alcohol, biological studies 67-63-0, Isopropyl alcohol,
biological studies 71-36-3, Butyl alcohol, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(solvent; hair coloring composition containing semipermanent cationic dye
and
polymeric ruboff protector)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Boots Co; WO 9744002 A 1997 HCAPLUS
(2) Wella; DE 19651482 C 1998 HCAPLUS

IT **68391-30-0**, C.I. Basic Red 76
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(Arianor Madder Red; **hair** coloring composition containing
semipermanent cationic **dye** and polymeric ruboff protector)

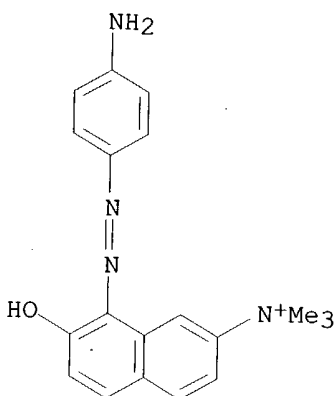
RN 68391-30-0 HCAPLUS
CN 2-Naphthalenaminium, 7-hydroxy-8-[(2-methoxyphenyl)azo]-N,N,N-trimethyl-,
chloride (9CI) (CA INDEX NAME)



● Cl⁻

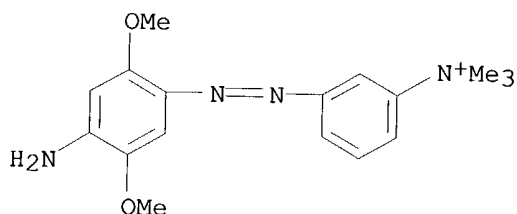
IT **26381-41-9**, C.I. Basic Brown 16
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(Arianor Mahogany; **hair** coloring composition containing semipermanent
cationic **dye** and polymeric ruboff protector)

RN 26381-41-9 HCAPLUS
CN 2-Naphthalenaminium, 8-[(4-aminophenyl)azo]-7-hydroxy-N,N,N-trimethyl-,
chloride (9CI) (CA INDEX NAME)



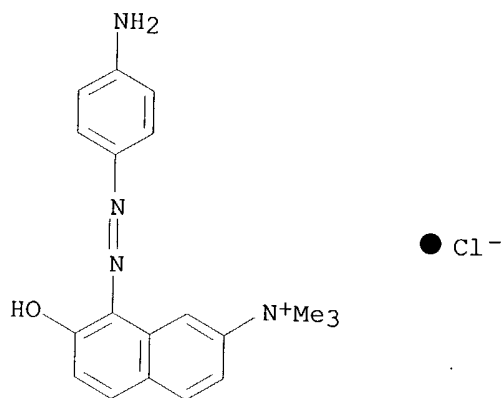
● Cl⁻

IT 226940-14-3, Arianor Orange
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (Arianor Orange; **hair** coloring composition containing semipermanent cationic **dye** and polymeric ruboff protector)
 RN 226940-14-3 HCAPLUS
 CN Benzenaminium, 3-[(4-amino-2,5-dimethoxyphenyl)azo]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

IT 176742-32-8, C.I. Basic Brown 17
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (Arianor Sienna Brown; **hair** coloring composition containing semipermanent cationic **dye** and polymeric ruboff protector)
 RN 176742-32-8 HCAPLUS
 CN 2-Naphthalenaminium, 8-[(4-aminonitrophenyl)azo]-7-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



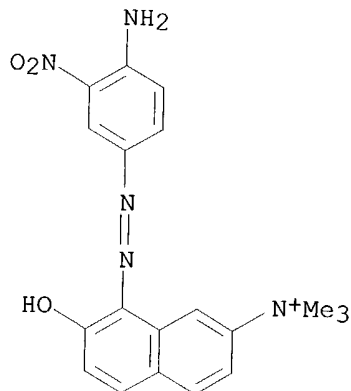
D1-NO2

IT 68391-32-2

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair coloring composition containing semipermanent cationic dye and polymeric ruboff protector)

RN 68391-32-2 HCAPLUS

CN 2-Naphthalenaminium, 8-[(4-amino-3-nitrophenyl)azo]-7-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

L21 ANSWER 19 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:930190 HCAPLUS
DN 136:58501
ED Entered STN: 26 Dec 2001
TI Storage-stable semipermanent hair dyes
IN Tanba, Masanao; Hayashi, Hideki
PA Hoyu Co., Ltd., Japan

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

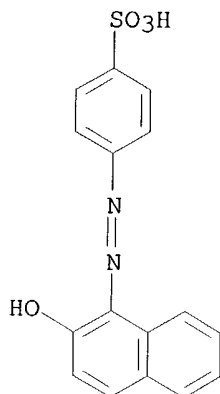
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001354529	A2	20011225	JP 2000-178682	20000614
PRAI	JP 2000-178682		20000614		

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	JP 2001354529	ICM	A61K007-13
AB	The hair dyes contain (A) hydroxyethanediphosphonic acid (I) and/or its salts, (B) water-soluble polymers selected from (b-1) hydroxyalkyl cellulose and CMC-Na and (b-2) carboxyvinyl polymers, poly(acrylic acid) or its salts, and/or acrylic acid-alkyl methacrylate copolymers, and (C) direct dyes. A composition (pH 3.5) containing I 0.05, hydroxyethyl cellulose 3.0, CMC-Na 1.0, Japan Black 401 0.5, Japan Purple 401 0.2, Japan Orange 205 0.5, benzyl alc. 5.0, N-methylpyrrolidone 10.0, citric acid, and H2O to 100 weight% showed no change in color after 2-wk storage in a sunny place and no change in viscosity after 1-mo storage at 50°.		
ST	hair dye hydroxyethanediphosphonate water sol polymer; hydroxyethyl cellulose CMC polyacrylate hair dye; carboxyvinyl polymer polymethacrylate hydroxyethanediphosphonate hair dye		
IT	Vinyl compounds, biological studies RL: COS (Cosmetic use); PRP (Properties); BIOL (Biological study); USES (Uses) (carboxy-containing, polymers; storage-stable semipermanent hair dyes containing hydroxyethanediphosphonates and water-soluble polymers)		
IT	Hair preparations (dyes; storage-stable semipermanent hair dyes containing hydroxyethanediphosphonates and water-soluble polymers)		
IT	Polymers, biological studies RL: COS (Cosmetic use); PRP (Properties); BIOL (Biological study); USES (Uses) (water-soluble; storage-stable semipermanent hair dyes containing hydroxyethanediphosphonates and water-soluble polymers)		
IT	79-10-7D, Acrylic acid , polymers with alkyl methacrylates 79-41-4D, Methacrylic acid , alkyl esters, polymers with acrylic acid 99-56-9, p-Nitro-o-phenylenediamine 633-96-5 , Japan Orange 205 1064-48-8 , Japan Black 401 2809-21-4, Hydroxyethanediphosphonic acid 4430-18-6, Japan Purple 401 5307-14-2, Nitro-p-phenylenediamine 9003-01-4 , Poly(acrylic acid) 9004-32-4 9004-62-0, Hydroxyethyl cellulose 9004-65-3, Hydroxypropyl methyl cellulose RL: COS (Cosmetic use); PRP (Properties); BIOL (Biological study); USES (Uses) (storage-stable semipermanent hair dyes containing hydroxyethanediphosphonates and water-soluble polymers)		
IT	633-96-5 , Japan Orange 205 1064-48-8 , Japan Black 401 9003-01-4 , Poly(acrylic acid) RL: COS (Cosmetic use); PRP (Properties); BIOL (Biological study); USES (Uses) (storage-stable semipermanent hair dyes containing hydroxyethanediphosphonates and water-soluble polymers)		

RN 633-96-5 HCAPLUS

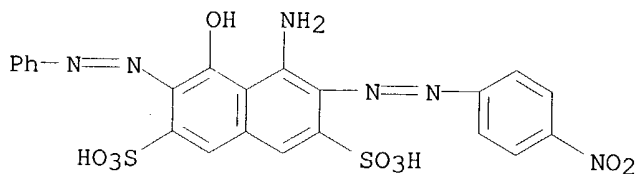
CN Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt (9CI) (CA INDEX NAME)



● Na

RN 1064-48-8 HCAPLUS

CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

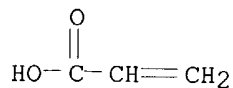
RN 9003-01-4 HCAPLUS

CN 2-Propenoic acid, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 79-10-7

CMF C3 H4 O2



AN 2001:923577 HCAPLUS
 DN 136:42518
 ED Entered STN: 21 Dec 2001
 TI Hair bleaches and dyes containing alkalies and oxidants
 IN Matsuo, Takashi; Miyabe, Hajime; Shibata, Yutaka
 PA Kao Corporation, Japan
 SO PCT Int. Appl., 32 pp.
 CODEN: PIXXD2

DT Patent

LA Japanese

IC ICM A61K007-13

ICS A61K007-135

CC 62-3 (Essential Oils and **Cosmetics**)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001095869	A1	20011220	WO 2001-JP4835	20010608
	W: US				
	RW: DE, FR, GB				
	JP 2001354530	A2	20011225	JP 2000-175133	20000612
	JP 2001354531	A2	20011225	JP 2000-175134	20000612
	EP 1291006	A1	20030312	EP 2001-938562	20010608
	R: DE, FR, GB				
	US 2003192133	A1	20031016	US 2002-275736	20021108
PRAI	JP 2000-175133	A	20000612		
	JP 2000-175134	A	20000612		
	WO 2001-JP4835	W	20010608		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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WO 2001095869	ICM	A61K007-13
	ICS	A61K007-135

AB An oxidation-type hair bleach or dye which is composed of a first lotion containing an alkali agent and a second lotion containing an oxidizing agent, contains the following components (A), (B), (C), and (D) in amts. described below based on the whole of the mixture of the first lotion with the second one, and has a pH of 8 to 12: (A) 8-40 % a water-compatible organic solvent exhibiting an octanol-water partition coefficient (logP) of 0.3 or above at 25°C and having a mol. weight of ≤ 200 , (B) 0.1-10 % an alkali agent, (C) 0.1-12 % an oxidizing agent, hydrogen peroxide, and (D) 25-70 % water. This hair bleach or dye has a high bleaching power, can dye the hair in a good bright color, and is lowered in the irritant stench and the irritation to the scalp. A hair bleach comprised (1) a first lotion containing Na polyoxyethylene lauryl sulfate 15, coco fatty acid diethanolamide 40, benzyl alc. 25, ammonia water (28 %) 7, and water 13 % and (2) a second lotion containing Na polyoxyethylene lauryl sulfate 20, coco fatty acid diethanolamide 2, H2O2 solution (35 %) 17, phosphoric acid solution (75 %) 0.3, and water 60.7 %.

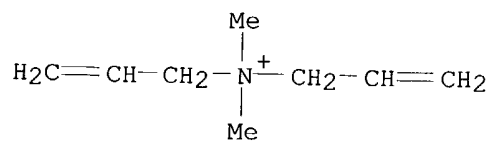
ST hair bleach dye oxidant alkali surfactant

IT Sulfonic acids, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (1-alkenesulfonic, sodium salts; hair bleaches and dyes containing alkalies and oxidants and surfactants in organic solvents)

IT Sulfonic acids, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (alkanesulfonic, sodium salts; hair bleaches and dyes containing alkalies and oxidants and surfactants in organic solvents)

IT Hair preparations

- (bleaches; hair bleaches and dyes containing alkalies and oxidants and surfactants in organic solvents)
- IT Amides, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(coco, N,N-bis(hydroxyethyl); hair bleaches and dyes containing alkalies and oxidants and surfactants in organic solvents)
- IT Polysiloxanes, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(di-Me, polyoxyethylene-, graft; hair bleaches and dyes containing alkalies and oxidants and surfactants in organic solvents)
- IT Hair preparations
(dyes; hair bleaches and dyes containing alkalies and oxidants and surfactants in organic solvents)
- IT Quaternary ammonium compounds, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(polymers; hair bleaches and dyes containing alkalies and oxidants and surfactants in organic solvents)
- IT 95-55-6, o-Aminophenol 95-70-5, Toluene-2,5-diamine 99-56-9, p-Nitro-o-phenylenediamine 100-51-6, Benzyl alcohol, biological studies 123-30-8, p-Aminophenol 591-27-5 622-08-2, 2-Benzyloxyethanol 1336-21-6, Ammonia water 2475-46-9, Disperse blue 3 2835-96-3, p-Amino-o-cresol 3179-90-6, Disperse blue 7 3520-42-1, Acid red 52 4292-10-8, Laurylamidopropylbetaine 7722-84-1, Hydrogen peroxide, biological studies 8004-92-0, Acid yellow 3 9002-92-0, Polyoxyethylene lauryl ether 9004-82-4, Sodium polyoxyethylene lauryl ether sulfate 9016-45-9, Polyoxyethylene nonyl phenyl ether 12221-52-2, Basic red 22 24938-91-8, Polyoxyethylene tridecyl ether **26590-05-6**, Merquat 550 29923-31-7, Sodium N-lauroyl glutamate 32128-65-7, Polyoxyethylene octyl dodecyl ether **53694-17-0**, Merquat 280 54381-16-7, N,N-Bis(2-hydroxyethyl)p-phenylenediamine sulfate **68391-30-0**, Basic red 76 70643-19-5, 2,4-Diaminophenoxyethanol 81859-24-7, Catinal LC 100 160950-38-9
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair bleaches and dyes containing alkalies and oxidants and surfactants in organic solvents)
- RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
- RE
- (1) Wella Aktiengesellschaft; JP 1053970 A 1997
(2) Wella Aktiengesellschaft; DE 19618595 A 1997 HCAPLUS
(3) Wella Aktiengesellschaft; EP 806198 A2 1997 HCAPLUS
(4) Wella Aktiengesellschaft; BR 9703093 A 1997 HCAPLUS
- IT **26590-05-6**, Merquat 550 **53694-17-0**, Merquat 280 **68391-30-0**, Basic red 76
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair bleaches and dyes containing alkalies and oxidants and surfactants in organic solvents)
- RN **26590-05-6** HCAPLUS
- CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)
- CM 1
- CRN 7398-69-8
- CMF C8 H16 N . Cl

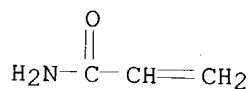


● Cl⁻

CM 2

CRN 79-06-1

CMF C3 H5 N O



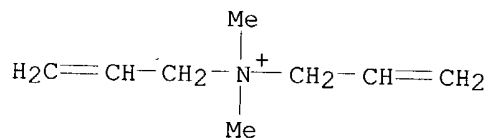
RN 53694-17-0 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl

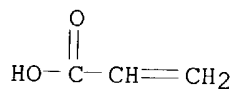


● Cl⁻

CM 2

CRN 79-10-7

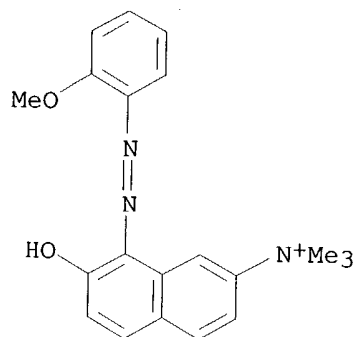
CMF C3 H4 O2



RN 68391-30-0 HCAPLUS

CN 2-Naphthalenaminium, 7-hydroxy-8-[(2-methoxyphenyl)azo]-N,N,N-trimethyl-,

chloride (9CI) (CA INDEX NAME)

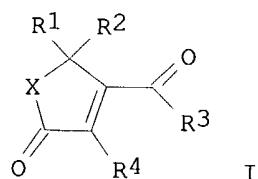
● Cl⁻

L21 ANSWER 21 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:923231 HCAPLUS
 DN 136:58497
 ED Entered STN: 21 Dec 2001
 TI Hair dyeing compositions containing oxocyclopentenones
 IN Gross, Wibke; Hoeffkes, Horst; Martin, Hans-Dieter; Moeller, Hinrich;
 Oberkobusch, Doris
 PA Henkel K.-G.a.A., Germany
 SO Ger. Offen., 18 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and **Cosmetics**)
 Section cross-reference(s): 23
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10029933	A1	20011220	DE 2000-10029933	20000617
	WO 2001097762	A1	20011227	WO 2001-EP6545	20010609
	W: AU, JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	EP 1311231	A1	20030521	EP 2001-949394	20010609
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
PRAI	DE 2000-10029933	A	20000617		
	WO 2001-EP6545	W	20010609		

CLASS

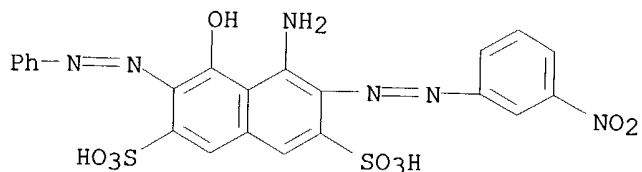
PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
DE 10029933	ICM	A61K007-13
OS	MARPAT 136:58497	
GI		



- AB Hair dyes contain oxocyclopentene derivative (I, R1 and R2 = H, or a C1-4 alkyl, R3 and R4 = H, C1-4 alkyl or group of aryls, the remainder of R1 and R2 and/or R3 and R4 can form a ring, and X = C:O, C:S or CH2). Thus, 2,5,5-trimethyl-3-oxocyclopent-1-enecarboxaldehyde (II) was prepared and used in a formulation consisting of II 8, Natrosol 250HR 2.0 and water to 100 g.
- ST oxacyclopentene hair dye prepn
- IT Amines, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(aromatic, primary; hair dyeing compns. containing oxocyclopentenenes)
- IT Amines, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(aryl, secondary; hair dyeing compns. containing oxocyclopentenenes)
- IT Amines, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(diamines, aromatic; hair dyeing compns. containing oxocyclopentenenes)
- IT Hair preparations
(dyes; hair dyeing compns. containing oxocyclopentenenes)
- IT Shampoos
(hair dyeing compns. containing oxocyclopentenenes)
- IT Amino acids, biological studies
Nitriles, biological studies
Phenols, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair dyeing compns. containing oxocyclopentenenes)
- IT Caseins, biological studies
Collagens, biological studies
Elastins
Keratins
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hydrolyzates; hair dyeing compns. containing oxocyclopentenenes)
- IT Peptides, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(oligopeptides; hair dyeing compns. containing oxocyclopentenenes)
- IT Protein hydrolyzates
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(soya; hair dyeing compns. containing oxocyclopentenenes)
- IT Protein hydrolyzates
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(wheat gluten; hair dyeing compns. containing oxocyclopentenenes)
- IT Glutens
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(wheat, hydrolyzates; hair dyeing compns. containing oxocyclopentenenes)
- IT 56-87-1, L-Lysine, biological studies 59-48-3 59-92-7, biological studies 60-18-4, L-Tyrosine, biological studies 62-53-3, Benzenamine, biological studies 63-91-2, L-Phenylalanine, biological studies 65-49-6 67-52-7, 2,4,6(1H,3H,5H)-Pyrimidinetrione 70-18-8, biological studies 70-26-8, L-Ornithine 71-00-1, L-Histidine, biological studies

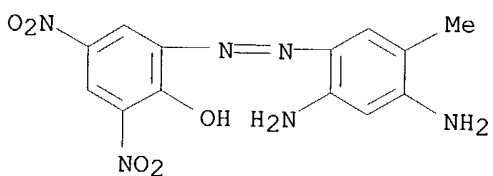
73-22-3, L-Tryptophan, biological studies 74-79-3, L-Arginine, biological studies 77-32-7 81-11-8 83-30-7 83-33-0 83-56-7, 1,5-Naphthalenediol 84-65-1, 9,10-Anthracenedione 84-65-1D, Anthraquinone, derivs. 87-02-5 87-66-1, 1,2,3-Benzenetriol 88-21-1 88-74-4 89-57-6 89-86-1 90-05-1 90-15-3, 1-Naphthalenol 90-20-0 91-29-2 92-44-4, 2,3-Naphthalenediol 92-65-9 95-54-5, 1,2-Benzenediamine, biological studies 95-55-6 95-70-5 95-88-5 96-91-3 96-93-5 98-37-3 99-05-8 99-07-0 99-31-0 99-50-3 99-56-9 100-01-6, biological studies 101-77-9 101-80-4 102-32-9 106-50-3, 1,4-Benzenediamine, biological studies 107-95-9, β -Alanine 108-45-2, 1,3-Benzenediamine, biological studies 108-46-3, 1,3-Benzenediol, biological studies 108-72-5, 1,3,5-Benzenetriamine 108-73-6, 1,3,5-Benzenetriol 109-00-2, 3-Pyridinol 110-85-0, Piperazine, biological studies 110-86-1, Pyridine, biological studies 110-89-4, Piperidine, biological studies 116-63-2 118-12-7 118-70-7, 4,5,6-Pyrimidinetriamine 118-92-3 119-34-6 119-59-5 119-70-0 119-72-2 120-72-9, 1H-Indole, biological studies 120-80-9, 1,2-Benzenediol, biological studies 121-47-1 121-57-3 123-30-8 123-31-9, 1,4-Benzenediol, biological studies 123-75-1, Pyrrolidine, biological studies 139-65-1 141-84-4 141-86-6, 2,6-Pyridinediamine 142-08-5, 2(1H)-Pyridinone 147-85-3, L-Proline, biological studies 149-87-1 149-91-7, biological studies 150-13-0 150-19-6 150-75-4 150-76-5 156-81-0, 2,4-Pyrimidinediamine 288-13-1, 1H-Pyrazole 288-32-4, 1H-Imidazole, biological studies 288-88-0, 1H-1,2,4-Triazole 462-08-8, 3-Pyridinamine 480-66-0 488-87-9 496-73-1 498-94-2, 4-Piperidinecarboxylic acid 498-95-3, 3-Piperidinecarboxylic acid 500-85-6D, Indophenol, derivs. 504-15-4 504-17-6 504-24-5, 4-Pyridinamine 504-29-0, 2-Pyridinamine 517-22-6 533-31-3, 1,3-Benzodioxol-5-ol 533-73-3, 1,2,4-Benzenetriol 535-75-1, 2-Piperidinecarboxylic acid 535-87-5 537-65-5 553-86-6, 2(3H)-Benzofuranone 556-03-6, Tyrosine 570-24-1 578-66-5, 8-Quinolinamine 580-17-6, 3-Quinolinamine 580-22-3, 2-Quinolinamine 582-17-2, 2,7-Naphthalenediol 591-27-5 603-81-6 606-23-5, 1H-Indene-1,3(2H)-dione 606-55-3 606-57-5 608-08-2 608-25-3 610-74-2 610-81-1 611-03-0 611-98-3 614-82-4 615-66-7 615-71-4, 1,2,4-Benzenetriamine 616-45-5, 2-Pyrrolidinone 616-47-7 619-05-6 623-09-6 626-64-2, 4-Pyridinol 636-25-9 876-87-9 934-22-5, 1H-Benzimidazol-5-amine 1004-74-6, Pyrimidinetetramine 1004-75-7 1123-55-3, 7-Benzothiazolamine 1123-93-9, 5-Benzothiazolamine 1125-60-6, 5-Isoquinolinamine 1197-55-3 1455-77-2, 1H-1,2,4-Triazole-3,5-diamine 1571-72-8 1820-80-0, 1H-Pyrazol-3-amine 1953-54-4, 1H-Indol-5-ol 2374-03-0 2380-84-9, 1H-Indol-7-ol 2380-86-1, 1H-Indol-6-ol 2380-94-1, 1H-Indol-4-ol 2510-01-2 2654-52-6 2785-06-0 2835-98-5 2835-99-6 2871-01-4 3131-52-0, 1H-Indole-5,6-diol 3158-63-2 3167-49-5 3342-78-7 3855-78-5 4331-29-7, 1H-Benzimidazol-4-amine 4506-66-5 4928-43-2 5007-67-0 5099-39-8 5131-58-8 5192-03-0, 1H-Indol-5-amine 5192-04-1, 1H-Indol-7-amine 5192-23-4, 1H-Indol-4-amine 5217-47-0 5307-14-2 5318-27-4, 1H-Indol-6-amine 5345-47-1 5418-63-3 5434-20-8 5718-83-2 **5850-35-1** 5959-52-4 6201-65-6 **6247-27-4** 6259-50-3 6358-09-4 6399-72-0 6628-04-2 6634-82-8 6967-12-0, 1H-Indazol-6-amine 7336-20-1 7411-49-6 7575-35-1 7749-47-5 7768-28-7 10173-66-7 13754-19-3, 4,5-Pyrimidinediamine 14268-66-7, 1,3-Benzodioxol-5-amine 14338-36-4 16082-33-0, 1H-Pyrazole-3,5-diamine 16859-86-2 16867-03-1 19335-11-6, 1H-Indazol-5-amine 20103-09-7 22715-34-0 23244-87-3, 2,4,5-Pyridinetriamine 23894-07-7 24119-24-2 24905-87-1 28020-38-4 28491-52-3 29539-03-5 29705-39-3 31835-64-0 39267-74-8

41927-50-8 41946-53-6 42952-29-4 49647-58-7 50610-28-1
 51387-92-9 55302-96-0 56932-44-6 58480-17-4 61224-35-9
 61693-42-3 62496-02-0 62952-42-5 63969-46-0 64993-07-3
 66566-48-1 66635-40-3 **68391-32-2** 69825-83-8 70643-19-5
71134-97-9 74918-21-1 77484-77-6 79352-72-0 82576-75-8
 83220-31-9 83220-31-9D, mixts. containing 83763-47-7
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair dyeing compns. containing oxocyclopentenenes)
 IT 83960-83-2 84540-47-6 84540-50-1 85679-78-3 85926-99-4
 87798-73-0 87814-15-1 90817-34-8 93841-24-8 93923-57-0
 95576-89-9 102574-14-1 104333-09-7 108946-76-5 110102-86-8
 110952-48-2 114402-54-9 115423-86-4 117907-43-4 126335-41-9
 128729-30-6 130582-56-8 137290-86-9 144644-13-3 155601-17-5
 159661-42-4 202525-73-3 202525-74-4 202525-75-5 202525-76-6
 202525-77-7 202525-78-8 202525-79-9 211872-02-5 215377-52-9
 220118-56-9 251450-62-1 346593-13-3 **346684-81-9**
380897-75-6 380897-77-8 380897-79-0
 381211-38-7 381211-39-8 381211-42-3 **381211-44-5**
 381211-96-7 381212-15-3 381212-17-5
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair dyeing compns. containing oxocyclopentenenes)
 IT 58626-49-6P 108946-70-9P
 RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (hair dyeing compns. containing oxocyclopentenenes)
 IT 75-52-5, reactions 78-92-2, 2-Butanol 97-86-9, Isobutyl
methacrylate 541-47-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (hair dyeing compns. containing oxocyclopentenenes)
 IT 17190-21-5P 30434-70-9P 58626-47-4P 58626-48-5P 109892-46-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (hair dyeing compns. containing oxocyclopentenenes)
 IT **5850-35-1 6247-27-4 68391-32-2**
71134-97-9 346684-81-9 380897-75-6
380897-77-8 380897-79-0 381211-44-5
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair dyeing compns. containing oxocyclopentenenes)
 RN 5850-35-1 HCAPLUS
 CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(3-nitrophenyl)azo]-6-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



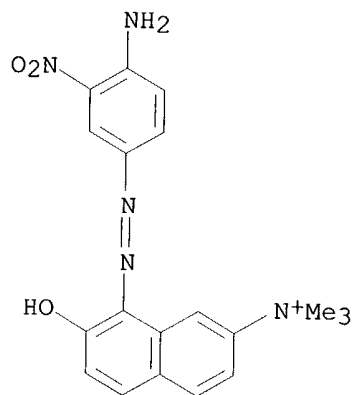
● 2 Na

RN 6247-27-4 HCAPLUS
 CN Phenol, 2-[(2,4-diamino-5-methylphenyl)azo]-4,6-dinitro- (9CI) (CA INDEX NAME)



RN 68391-32-2 HCAPLUS

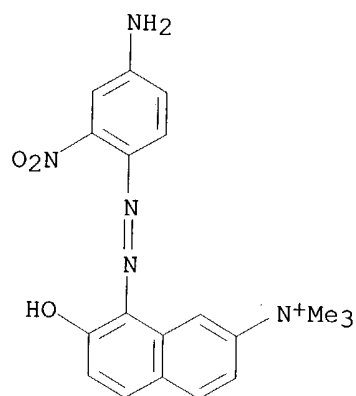
CN 2-Naphthalenaminium, 8-[(4-amino-3-nitrophenyl)azo]-7-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

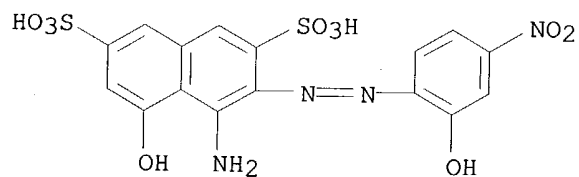
RN 71134-97-9 HCAPLUS

CN 2-Naphthalenaminium, 8-[(4-amino-2-nitrophenyl)azo]-7-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



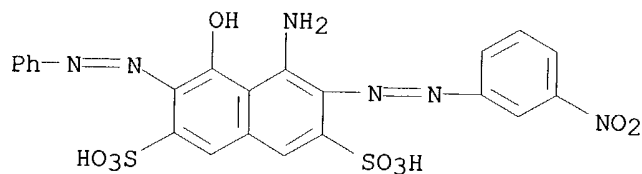
● Cl⁻

RN 346684-81-9 HCAPLUS
CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(2-hydroxy-4-nitrophenyl)azo]-, disodium salt (9CI) (CA INDEX NAME)

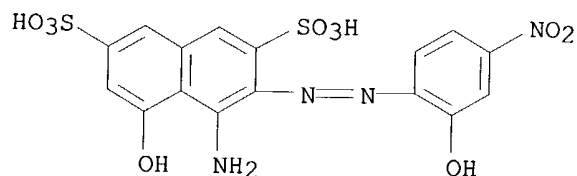


●2 Na

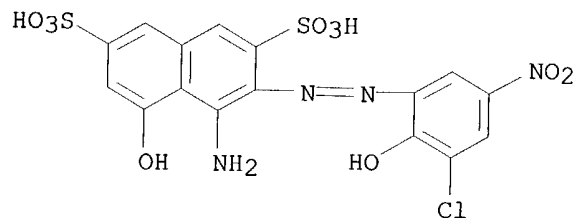
RN 380897-75-6 HCAPLUS
CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(3-nitrophenyl)azo]-6-(phenylazo)- (9CI) (CA INDEX NAME)



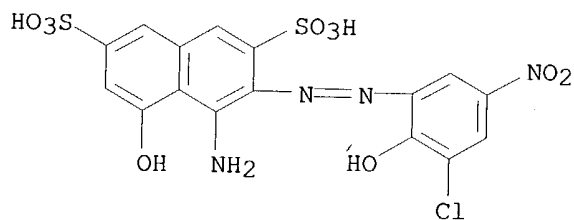
RN 380897-77-8 HCAPLUS
CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(2-hydroxy-4-nitrophenyl)azo]- (9CI) (CA INDEX NAME)



RN 380897-79-0 HCAPLUS
 CN 2,7-Naphthalenedisulfonic acid, 4-amino-3-[(3-chloro-2-hydroxy-5-nitrophenyl)azo]-5-hydroxy- (9CI) (CA INDEX NAME)



RN 381211-44-5 HCAPLUS
 CN 2,7-Naphthalenedisulfonic acid, 4-amino-3-[(3-chloro-2-hydroxy-5-nitrophenyl)azo]-5-hydroxy-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

L21 ANSWER 22 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:631863 HCAPLUS
 DN 135:185197
 ED Entered STN: 31 Aug 2001
 TI Hair dyeing composition containing direct dyes and quaternized dimethyl-or diethylamino **alkylmethacrylate** polymers
 IN Lorenz, Heribert
 PA Goldwell G.m.b.H., Germany
 SO Eur. Pat. Appl., 9 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1127566	A2	20010829	EP 2001-100617	20010111
	EP 1127566	A3	20011219		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	DE 10007776	A1	20010906	DE 2000-10007776	20000221
	PRAI DE 2000-10007776	A	20000221		

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	EP 1127566	ICM	A61K007-13

AB The invention concerns hair dyes that contain a direct dye and quaternized dimethyl-or diethylamino **alkylmethacrylate** polymers, e.g. quaternary dimethylaminoethyl homopolymer. Thus a composition contained (weight/weight%): dimethicone copolyol 1.50; ethanol 5.00; lactic acid (95%) 5.00; sodium hydroxide (32%) 0.20; Polyquaternium 37 (50% in propylene glycol dicaprate-dicaprylate solution) 3.50; Acid Orange 7 0.15; Acid Yellow 3 0.10; Acid Violet 43 0.25; water to 100; pH 3.0.

ST hair dye quaternized dimethyl diethylamino **alkylmethacrylate** polymer

IT Dyes
(direct; hair dyeing composition containing direct dyes and quaternized di-Me-or diethylamino **alkylmethacrylate** polymers)

IT Hair preparations
(dyes; hair dyeing composition containing direct dyes and quaternized di-Me-or diethylamino **alkylmethacrylate** polymers)

IT pH
(hair dyeing composition containing direct dyes and quaternized di-Me-or diethylamino **alkylmethacrylate** polymers)

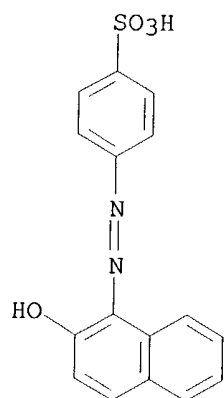
IT **Acrylic** polymers, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(quaternized dimethyl-or diethylamino **alkylmethacrylates**; hair dyeing composition containing direct dyes and quaternized di-Me-or diethylamino **alkylmethacrylate** polymers)

IT **633-96-5**, Acid Orange 7 **4430-18-6**, Acid Violet 43 **8004-92-0**, C.I. Acid Yellow 3 **26161-33-1**, Polyquaternium 37
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**hair dyeing** composition containing direct **dyes** and quaternized di-Me-or diethylamino **alkylmethacrylate** polymers)

IT **633-96-5**, Acid Orange 7 **26161-33-1**, Polyquaternium 37
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**hair dyeing** composition containing direct **dyes** and quaternized di-Me-or diethylamino **alkylmethacrylate** polymers)

RN **633-96-5** HCAPLUS

CN Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt (9CI) (CA INDEX NAME)

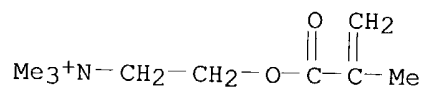


● Na

RN 26161-33-1 HCAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1
CMF C9 H18 N O2 . Cl



● Cl⁻

L21 ANSWER 23 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:579235 HCAPLUS
DN 135:141965
ED Entered STN: 10 Aug 2001
TI Hair dyes containing quaternized dimethylamino- or diethylaminoalkyl
methacrylate polymers
PA Goldwell G.m.b.H., Germany
SO Ger. Gebrauchsmusterschrift, 18 pp.
CODEN: GGXXFR
DT Patent
LA German
IC ICM A61K007-13
CC 62-3 (Essential Oils and **Cosmetics**)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI DE 20003105 U1 20010809 DE 2000-20003105 20000221
 PRAI DE 2000-20003105 20000221
 CLASS

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

DE 20003105 ICM A61K007-13

AB The invention concerns water-based hair dyes that contain at least one direct dye and at least one quaternized dimethylamino- or diethylaminoalkyl **methacrylate** polymer, the pH is 2-6.5. Thus a composition contained (weight/weight%): dimethicone copolyol 1.5; ethanol 5.00; propylene carbonate 25.00; lactic acid (90%) 5.0; sodium hydroxyde (32%) 0.20; Polyquaternium-37 50% in propyleneglycol dicaprinate-dicaprylate-Trideceth -6 mixture 3.50; Acid Orange 7 0.15; Acid Yellow 3 0.10; Acid Violet 43 0.25; water to 100; pH 2.0.

ST direct hair dye quaternized diethylamino **methacrylate** polymer
 IT **633-96-5**, Acid Orange 7 2871-01-4, HC red 3 4430-18-6, Acid Violet 43 8004-92-0, Acid Yellow 3 24938-91-8, Salcare SC95 **26161-33-1 26381-41-9**, basic brown 16 **35429-19-7**, Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide 56932-44-6, HC yellow 5 68123-13-7, basic blue 99 68391-31-1, basic yellow 57 **176742-32-8**, basic brown 17

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(hair dyes containing quaternized dimethylamino- or diethylaminoalkyl **methacrylate** polymers)

IT 473664-54-9

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(hair dyes containing quaternized dimethylamino- or diethylaminoalkyl **methacrylate** polymers)

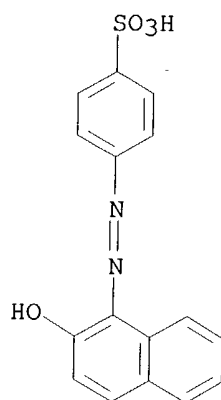
IT **633-96-5**, Acid Orange 7 **26161-33-1 26381-41-9**, basic brown 16 **35429-19-7**, Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide **176742-32-8**, basic brown 17

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(hair dyes containing quaternized dimethylamino- or diethylaminoalkyl **methacrylate** polymers)

RN 633-96-5 HCAPLUS

CN Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt (9CI) (CA INDEX NAME)

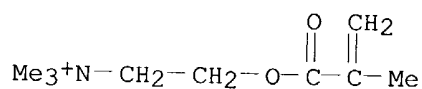


● Na

RN 26161-33-1 HCAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, homopolymer (9CI) (CA INDEX NAME)

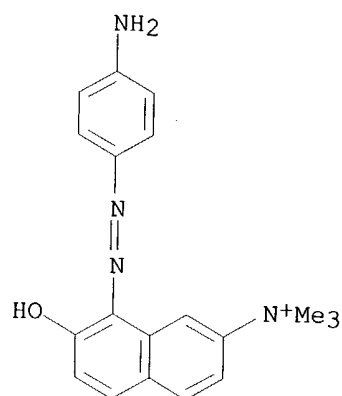
CM 1

CRN 5039-78-1
CMF C9 H18 N O2 . Cl



● Cl⁻

RN 26381-41-9 HCAPLUS
CN 2-Naphthalenaminium, 8-[(4-aminophenyl)azo]-7-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

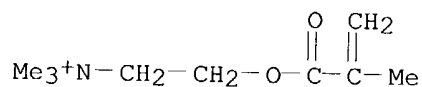


● Cl⁻

RN 35429-19-7 HCAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

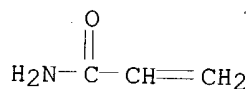
CRN 5039-78-1
CMF C9 H18 N O2 . Cl



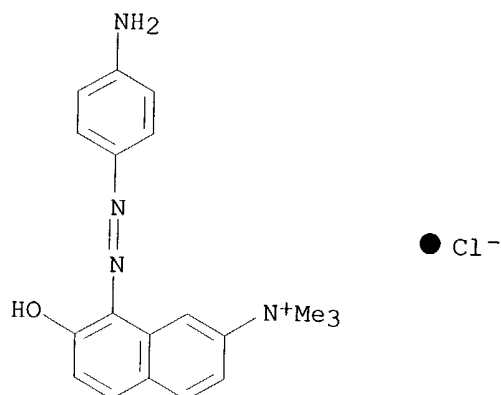
● Cl⁻

CM 2

CRN 79-06-1
CMF C3 H5 N O



RN 176742-32-8 HCAPLUS
CN 2-Naphthalenaminium, 8-[(4-aminonitrophenyl)azo]-7-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



D1-NO2

L21 ANSWER 24 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:403400 HCAPLUS
 DN 135:9819
 ED Entered STN: 05 Jun 2001
 TI Hair dye compositions containing **polyacrylates** and aromatic
 alcohols or alkylene carbonates
 IN Tsuge, Tomoji; Kojima, Atsushi
 PA Hoyu K. K., Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese
 IC ICM A61K007-13
 ICS C09B067-46
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001151647	A2	20010605	JP 1999-337042	19991129
PRAI JP 1999-337042		19991129		

CLASS

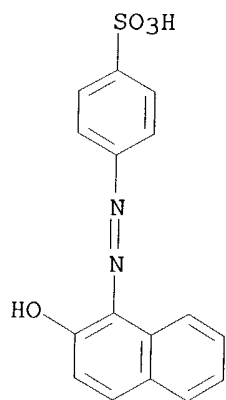
PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2001151647	ICM	A61K007-13
	ICS	C09B067-46

AB The compns., which show good dyeability, adhesion to the hair, and no dripping, contain water-dispersible **acrylic** acid polymers, aromatic alcs. and/or lower alkylene carbonates, and direct dyes. A hair dye was prepared from alkyl **acrylate** copolymer emulsion 10.0, benzyl alc. 10.0, carboxyvinyl polymer 2.0, EtOH 8.0, Black Number 401 0.3, Purple Number 401 0.1, Orange Number 205 0.2, lactic acid, and H2O to 100 weight%.

ST hair dye direct **polyacrylate** arom alc; alkylene carbonate
polyacrylate hair dye direct

IT Polyoxyalkylenes, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (**acrylic**; hair dyes containing **polyacrylates** and aromatic alcs. or alkylene carbonates)

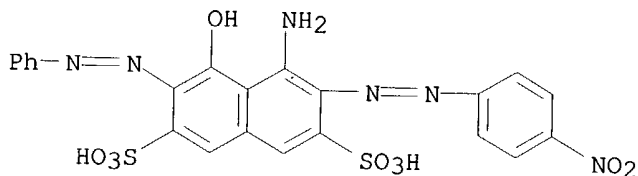
- IT Polyoxyalkylenes, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (alkyl ethers, monoitaconates, polymers with alkyl **acrylate**;
 hair dyes containing **polyacrylates** and aromatic alcs. or alkylene
 carbonates)
- IT Alcohols, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (aralkyl; hair dyes containing **polyacrylates** and aromatic alcs. or
 alkylene carbonates)
- IT Hair preparations
 (dyes; hair dyes containing **polyacrylates** and aromatic alcs. or
 alkylene carbonates)
- IT 79-10-7D, **Acrylic** acid, alkyl esters, polymers 79-41-4D,
Methacrylic acid, alkyl esters, polymers 96-49-1, Ethylene
 carbonate 99-56-9, p-Nitro-o-phenylenediamine 100-42-5D, Styrene,
 polymers with alkyl **acrylate** 100-51-6, Benzyl alcohol,
 biological studies 108-32-7, Propylene carbonate 128-95-0,
 1,4-Diaminoanthraquinone 622-08-2, 2-Benzyloxyethanol **633-96-5**
 , Japan Orange 205 **1064-48-8**, Japan Black 401 4430-18-6, Japan
 Purple 401 5307-14-2, Nitro-p-phenylenediamine 9005-00-9D,
 Polyoxyethylene stearyl ether, polymers with alkyl (meth)**acrylates**
 25322-68-3D, Polyethylene glycol, alkyl ethers, monoitaconates, polymers
 with alkyl **acrylate**
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (hair dyes containing **polyacrylates** and aromatic
 alcs. or alkylene carbonates)
- IT **633-96-5**, Japan Orange 205 **1064-48-8**, Japan Black 401
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (hair dyes containing **polyacrylates** and aromatic
 alcs. or alkylene carbonates)
- RN 633-96-5 HCAPLUS
- CN Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt
 (9CI) (CA INDEX NAME)



● Na

RN 1064-48-8 HCAPLUS

CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

L21 ANSWER 25 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:686710 HCAPLUS
 DN 131:291360
 ED Entered STN: 28 Oct 1999
 TI Staining method for removing louse nits from hair
 IN Reid, Lori Fox; Kross, Robert D.
 PA USA
 SO U.S., 7 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 IC ICM A61K049-00
 ICS A61K033-00; A61K031-61; A61K031-415
 NCL 514407000
 CC 63-8 (Pharmaceuticals)
 Section cross-reference(s): 5, 62

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5972987	A	19991026	US 1999-270350	19990316
	CA 2360888	AA	20000921	CA 2000-2360888	20000214
	WO 2000054816	A1	20000921	WO 2000-US3811	20000214
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1161265	A1	20011212	EP 2000-911812	20000214
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	US 1999-270350	A	19990316		
	WO 2000-US3811	W	20000214		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 5972987	ICM	A61K049-00

ICS A61K033-00; A61K031-61; A61K031-415
NCL 514407000

- AB A method for removing louse eggs from the hair of an infested human or animal using a nit-visualizing composition is disclosed. The composition involves
- the use of certain dyes which have an affinity to the surface of nits, to thereby enable a second individual to more easily see and remove the eggs during a combing or other removal process. To effectuate this purpose, a colored material is dispersed within a water- or alc.-based solvent and, in one embodiment, a liquefied propellant as well. The composition is applied to the hair of the infested human or animal, and then removed after drying by a process of brushing or washing. However, the colored material which adsorbs to the chitinous exoskeleton and binding cement of the louse eggs remains on the nits, thereby facilitating visual identification and removal of the eggs from hair.
- ST louse nit removal hair dye
- IT Lanolin
- Paraffin oils
- RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
- (aerosol spray lubricant; staining method for removing louse nits from hair)
- IT Polysiloxanes, uses
- RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
- (aerosol spray propellant; staining method for removing louse nits from hair)
- IT Sprays
- (aerosols; staining method for removing louse nits from hair)
- IT Hydrocarbons, uses
- RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
- (chlorofluorocarbons, aerosol spray propellant; staining method for removing louse nits from hair)
- IT Invertebrate body covering
- (exoskeleton, stains specific for; staining method for removing louse nits from hair)
- IT Hydrocarbons, uses
- RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
- (fluoro, aerosol spray propellant; staining method for removing louse nits from hair)
- IT Lubricants
- Plasticizers
- Propellants (sprays and foams)
- Solvents
- (for aerosol sprays; staining method for removing louse nits from hair)
- IT Aminoplasts
- RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
- (for aerosol sprays; staining method for removing louse nits from hair)
- IT Louse
- (head; staining method for removing louse nits from hair)
- IT Egg
- (louse; staining method for removing louse nits from hair)
- IT Insecticides
- (pediculicides; staining method for removing louse nits from hair)
- IT Mica-group minerals, uses
- RL: ARG (Analytical reagent use); PRP (Properties); ANST (Analytical

- study); USES (Uses)
 (pigment; staining method for removing louse nits from hair)
- IT Spray atomizers
 (pneumatic; staining method for removing louse nits from hair)
- IT Hair
 Perfumes
 Pigments, nonbiological
 Stains, biological
 (staining method for removing louse nits from hair)
- IT Polymers, analysis
 RL: ARU (Analytical role, unclassified); PEP (Physical, engineering or chemical process); ANST (Analytical study); PROC (Process)
 (staining method for removing louse nits from hair)
- IT 84-66-2, Diethyl phthalate 110-27-0, Isopropyl myristate 2432-87-3, Dioctyl sebacate 9007-48-1, Polyglycerylolate
 RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
 (aerosol spray plasticizer; staining method for removing louse nits from hair)
- IT 67-66-3, Chloroform, uses 74-98-6, Propane, uses 75-28-5, Isobutane
 RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
 (aerosol spray propellant; staining method for removing louse nits from hair)
- IT 64-17-5, Ethanol, uses 67-63-0, Isopropyl alcohol, uses 102-71-6, uses 7732-18-5, Water, uses
 RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
 (aerosol spray solvent; staining method for removing louse nits from hair)
- IT 54-64-8, Thimerosal 129-16-8, Mercurochrome 518-47-8, Disodium fluorescein 519-73-3D, Triphenylmethane, derivs. 633-03-4, Brilliant green 1934-21-0, Tartrazine 2321-07-5, Fluorescein 16423-68-0, 2',4',5',7'-Tetraiodofluorescein disodium salt 17372-87-1, Eosin y 28983-56-4, Methyl blue
 RL: ARG (Analytical reagent use); PEP (Physical, engineering or chemical process); ANST (Analytical study); PROC (Process); USES (Uses)
 (dye; staining method for removing louse nits from hair)
- IT 84-65-1D, Anthraquinone, derivs. 92-83-1D, Xanthene, derivs. 39455-90-8D, Pyrazolone, derivs.
 RL: ARG (Analytical reagent use); PEP (Physical, engineering or chemical process); ANST (Analytical study); PROC (Process); USES (Uses)
 (dyes; staining method for removing louse nits from hair)
- IT 9003-05-8, Polyacrylamide 9003-05-8D, Polyacrylamide, methane-sulfonic acid derivs. 9003-08-1 25035-84-1, Polyvinyl propionate 26008-54-8, Vinyl alcohol-vinylpyrrolidone copolymer
 RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
 (for aerosol sprays; staining method for removing louse nits from hair)
- IT 1332-37-2, Iron oxide, uses 7787-59-9, Bismuth oxychloride 13463-67-7, Titanium dioxide, uses 25869-00-5, Ferric ammonium ferrocyanide
 RL: ARG (Analytical reagent use); PRP (Properties); ANST (Analytical study); USES (Uses)
 (pigment; staining method for removing louse nits from hair)
- IT 67-64-1, 2-Propanone, uses 75-09-2, uses 115-10-6, Dimethyl ether
 RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)

(staining method for removing louse nits from hair)
 IT 1398-61-4, Chitin
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (stains specific for; staining method for removing louse nits from hair)

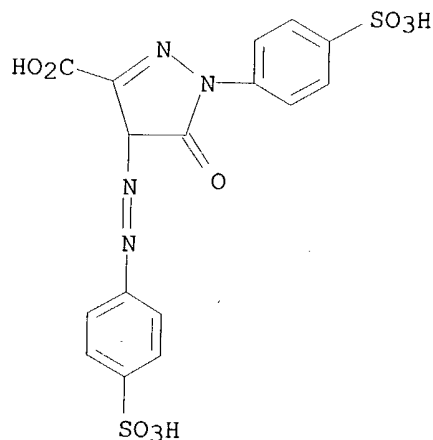
RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
 RE

- (1) Andrews; US 5380756 1995 HCAPLUS
- (2) Bernstein; US 4439427 1984 HCAPLUS
- (3) Bernstein; US 4927813 1990 HCAPLUS
- (4) Cardin; US 5292504 1994 HCAPLUS
- (5) James; US 5681859 1997 HCAPLUS
- (6) Mallis, A; Handbook of Pest Control Sixth Edition 1982, P593
- (7) Sheftel; US 5658750 1997 HCAPLUS
- (8) Upton; US 5547665 1996 HCAPLUS

IT 1934-21-0, Tartrazine
 RL: ARG (Analytical reagent use); PEP (Physical, engineering or chemical process); ANST (Analytical study); PROC (Process); USES (Uses)
 (dye; staining method for removing louse nits from hair)

RN 1934-21-0 HCAPLUS

CN 1H-Pyrazole-3-carboxylic acid, 4,5-dihydro-5-oxo-1-(4-sulfophenyl)-4-[(4-sulfophenyl)azo]-, trisodium salt (9CI) (CA INDEX NAME)



● 3 Na

IT 9003-05-8, Polyacrylamide 9003-05-8D,
 Polyacrylamide, methane-sulfonic acid derivs.
 RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
 (for aerosol sprays; staining method for removing louse nits from hair)

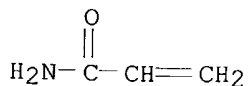
RN 9003-05-8 HCAPLUS

CN 2-Propenamide, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 79-06-1

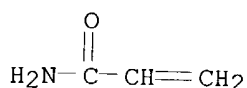
CMF C3 H5 N O



RN 9003-05-8 HCAPLUS
CN 2-Propenamide, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 79-06-1
CMF C3 H5 N O



L21 ANSWER 26 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:296972 HCAPLUS

DN 131:9443

ED Entered STN: 14 May 1999

TI Hair dyes containing amphoteric polymers

IN Takahashi, Toshinobu; Kurita, Nobuyuki

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM A61K007-06

ICS A61K007-13

CC 62-3 (Essential Oils and **Cosmetics**)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11124319	A2	19990511	JP 1997-306441	19971020
PRAI	JP 1997-306441		19971020		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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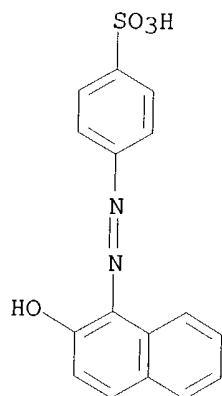
JP 11124319	ICM	A61K007-06
	ICS	A61K007-13

AB Hair dyes which provide improved coloring capability, stability, and water resistance with little color transfers, comprise (1) amphoteric polymers, (2) acidic dyes, and (3) pigments. The dye compns. may further contain a foaming agent, ethanol, and water. A hair mousse contained an amphoteric copolymer, i.e. $[\text{CH}_2=\text{CMeCO}_2\text{C}_2\text{H}_4\text{N}+\text{Me}_2\text{CH}_2\text{CO}_2-]_x[\text{CH}_2=\text{CMeCO}_2\text{C}_{17}\text{H}_{35}]_y[\text{CH}_2=\text{CMeCO}_2\text{C}_4\text{H}_9]_z$ (mol. weight 200,000) 6, naphthol blue black 0.1, naphthol yellow S 0.2, orange II 0.04, acid fuchsine D 0.15, carbon black 1, glycerin 1, dimethylpolysiloxane 3, polyoxyethylene hydrogenated castor oils 3, ethanol 20, perfumes q.s, LPG 8, and deionized water q.s. to 100 %.

ST hair acidic dye amphoteric polymer

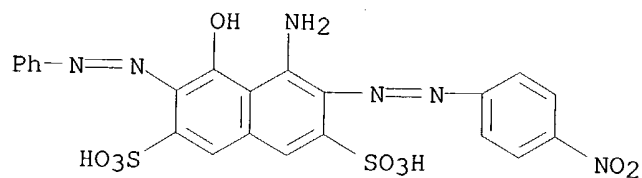
IT Hair preparations
(dyes; hair dyes containing amphoteric polymers and acidic dyes and pigments)

- IT Hair preparations
(gels; hair dyes containing amphoteric polymers and acidic dyes and pigments)
- IT Carbon black, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(hair dyes containing amphoteric polymers and acidic dyes and pigments)
- IT Hair preparations
(mousses; hair dyes containing amphoteric polymers and acidic dyes and pigments)
- IT Hair preparations
(sprays; hair dyes containing amphoteric polymers and acidic dyes and pigments)
- IT 633-96-5, Orange II 846-70-8, Naphthol yellow S
1064-48-8, Naphthol blue black 1332-37-2, Iron oxide, biological studies 3567-66-6, Acid fuchsine D 212832-26-3
225366-96-1 225366-97-2
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(hair dyes containing amphoteric polymers and acidic dyes and pigments)
- IT 633-96-5, Orange II 1064-48-8, Naphthol blue black
3567-66-6, Acid fuchsine D 212832-26-3
225366-96-1 225366-97-2
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(hair dyes containing amphoteric polymers and acidic dyes and pigments)
- RN 633-96-5 HCAPLUS
- CN Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt (9CI) (CA INDEX NAME)



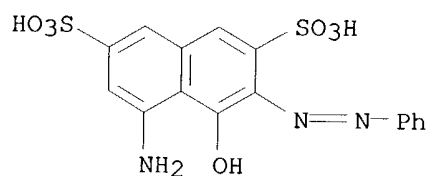
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- RN 1064-48-8 HCAPLUS
- CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 3567-66-6 HCAPLUS
 CN 2,7-Naphthalenedisulfonic acid, 5-amino-4-hydroxy-3-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)

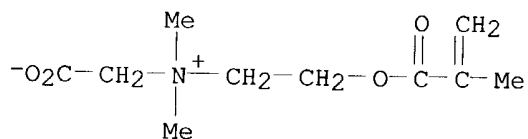


●2 Na

RN 212832-26-3 HCAPLUS
 CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, inner salt, polymer with heptadecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

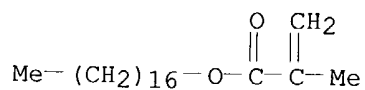
CM 1

CRN 62723-61-9
 CMF C10 H17 N O4



CM 2

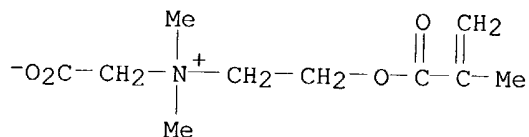
CRN 6140-75-6
 CMF C21 H40 O2



RN 225366-96-1 HCAPLUS
 CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, inner salt, polymer with butyl 2-methyl-2-propenoate and heptadecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

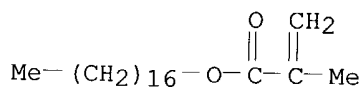
CM 1

CRN 62723-61-9
 CMF C10 H17 N O4



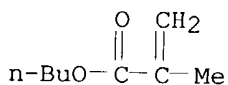
CM 2

CRN 6140-75-6
 CMF C21 H40 O2



CM 3

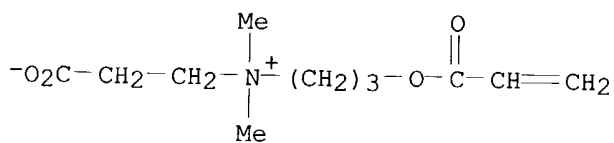
CRN 97-88-1
 CMF C8 H14 O2



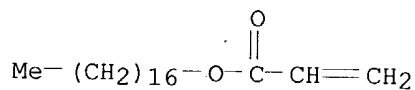
RN 225366-97-2 HCAPLUS
 CN 1-Propanaminium, N-(2-carboxyethyl)-N,N-dimethyl-3-[(1-oxo-2-propenyl)oxy]-, inner salt, polymer with butyl 2-propenoate and heptadecyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

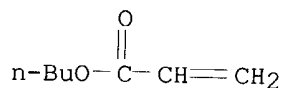
CRN 155559-37-8
 CMF C11 H19 N O4



CM 2

CRN 28343-58-0
CMF C20 H38 O2

CM 3

CRN 141-32-2
CMF C7 H12 O2

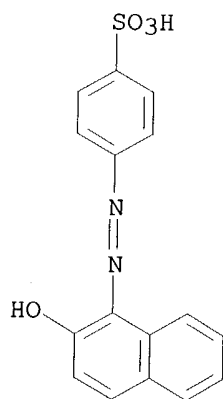
L21 ANSWER 27 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1998:693025 HCAPLUS
 DN 130:17080
 ED Entered STN: 02 Nov 1998
 TI Semi-permanent hair dyes
 IN Kojima, Atsushi
 PA Hoya K. K., Japan
 SO Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 10287535	A2	19981027	JP 1997-113500	19970414
PRAI	JP 1997-113500		19970414		

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	-----	---	-----
JP	10287535	ICM	A61K007-13
AB	Semi-permanent hair dyes showing appropriate hair dyeing and conditioning effects contain: [a] arom alcs., [b] cationic compds., [c] water-soluble anionic polymers, [d] direct dyes and [e] carboxylic acids.		
ST	semipermanent hair dye alc cationic compd; anionic compd semipermanent hair dye		
IT	Polyelectrolytes (anionic, water-soluble; semipermanent hair dyes)		
IT	Alcohols, biological studies		
RL:	BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (aralkyl; semipermanent hair dyes)		

- IT Polyelectrolytes
(cationic; semipermanent hair dyes)
- IT Dyes
(direct; semipermanent hair dyes)
- IT Hair preparations
(dyes; semipermanent hair dyes)
- IT **Acrylic** polymers, biological studies
Carboxylic acids, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(semipermanent hair dyes)
- IT 9004-34-6D, Cellulose, derivs., biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(cationic; semipermanent hair dyes)
- IT 50-21-5, Lactic acid, biological studies 100-51-6, Benzenemethanol,
biological studies 112-03-8, Stearyltrimethylammonium chloride
633-96-5, Japan orange 205 7398-69-8, Dimethyldiallylammonium
chloride **9003-04-7**, **Polyacrylic** acid sodium salt
9004-32-4 9004-62-0, Hydroxyethyl cellulose **25549-84-2**,
Polyacrylic acid sodium salt 92183-41-0 142905-80-4
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(semipermanent hair dyes)
- IT **633-96-5**, Japan orange 205 **9003-04-7**,
Polyacrylic acid sodium salt **25549-84-2**,
Polyacrylic acid sodium salt
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(semipermanent hair dyes)
- RN 633-96-5 HCAPLUS
- CN Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt
(9CI) (CA INDEX NAME)



● Na

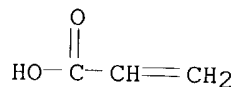
- RN 9003-04-7 HCAPLUS
- CN 2-Propenoic acid, homopolymer, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 9003-01-4
CMF (C3 H4 O2)x
CCI PMS

CM 2

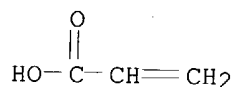
CRN 79-10-7
CMF C3 H4 O2



RN 25549-84-2 HCAPLUS
CN 2-Propenoic acid, sodium salt, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 7446-81-3
CMF C3 H4 O2 . Na



● Na

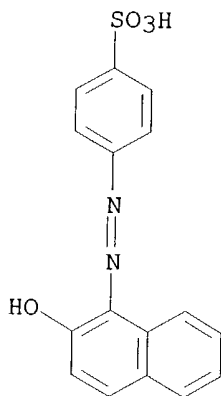
L21 ANSWER 28 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1998:516316 HCAPLUS
DN 129:152988
ED Entered STN: 19 Aug 1998
TI Acidic hair dye compositions
IN Shisui, Ayako; Nakano, Koji
PA Yamahatsu Sangyo Kaisha, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM A61K007-13
CC 62-3 (Essential Oils and **Cosmetics**)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10212219	A2	19980811	JP 1997-18501	19970131
	JP 3072506	B2	20000731		
PRAI	JP 1997-18501		19970131		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 10212219	ICM	A61K007-13

- AB Acidic dye compns. showing excellent dyeing, wash-resistant and dye-adhering effects contain: [A] **acrylic** acid-alkyl **acrylate** copolymer, [B] alcs., and [C] acid dyes.
- ST acidic hair dye **acrylic** copolymer alc
- IT Dyes
(acid; acidic hair dye compns.)
- IT **Acrylic** polymers, biological studies
Alcohols, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(acidic hair dye compns.)
- IT Hair preparations
(dyes, acidic; acidic hair dye compns.)
- IT 64-17-5, Ethanol, biological studies 100-51-6, Benzyl alcohol, biological studies **633-96-5**, Japan orange 205 176429-87-1, Carbopol etd 2020
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(acidic **hair dye** compns.)
- IT **633-96-5**, Japan orange 205
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(acidic **hair dye** compns.)
- RN 633-96-5 HCAPLUS
- CN Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt (9CI) (CA INDEX NAME)



● Na

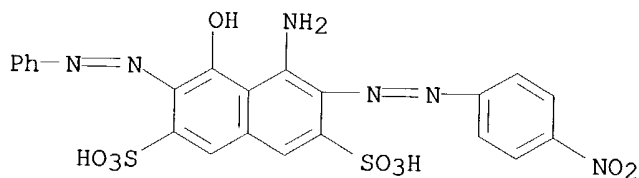
L21 ANSWER 29 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:803593 HCAPLUS
DN 128:92988
ED Entered STN: 25 Dec 1997
TI Hair dye compositions
IN Aoki, Kunihito; Morita, Kenichi; Kawaguchi, Shigetaka
PA Nonogawa Shoji Y. K., Japan
SO Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF

DT Patent
 LA Japanese
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09323921	A2	19971216	JP 1996-184308	19960531
	JP 3476623	B2	20031210		
PRAI	JP 1996-184308		19960531		

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	JP 09323921	ICM	A61K007-13
AB	Hair dye compns. showing excellent dyeing and wash-resistant properties and stability comprise: (A) methacrylic acid-alkyl methacrylate copolymers, (B) benzyl alc., n-butanol or other monohydric alcs., (C) acids and (D) acid dyes [final pH = 1.5-4.5].		
ST	Hair dye acrylic copolymer alc		
IT	Dyes (acid; hair dye compns.)		
IT	Hair preparations (dyes; hair dye compns.)		
IT	Acids, biological studies Alcohols, biological studies		
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (hair dye compns.)		
IT	50-21-5, Lactic acid, biological studies 71-36-3D, n-Butanol, alkyl methacrylate copolymer 79-41-4D, Methacrylic acid, alkyl, copolymers with methacrylic acid 79-41-4D, Methacrylic acid, copolymers with methacrylic acid 100-51-6, Benzyl alcohol, biological studies 108-93-0, Cyclohexanol, biological studies 122-99-6, Phenoxyethanol 622-08-2, 2-Benzyloxyethanol 1064-48-8 , Japan black 401		
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (hair dye compns.)		
IT	1064-48-8 , Japan black 401		
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (hair dye compns.)		
RN	1064-48-8 HCAPLUS		
CN	2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)		



● 2 Na

L21 ANSWER 30 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1997:433152 HCAPLUS
 DN 127:55628
 ED Entered STN: 11 Jul 1997
 TI Hair dyeing compositions containing acid dyes
 IN Segawa, Hirotsugu; Nakatani, Yasuaki
 PA Takara Belmont Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and Cosmetics)
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 09124450	A2	19970513	JP 1995-285734	19951102
JP 3243401	B2	20020107		
PRAI JP 1995-285734		19951102		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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JP 09124450	ICM	A61K007-13
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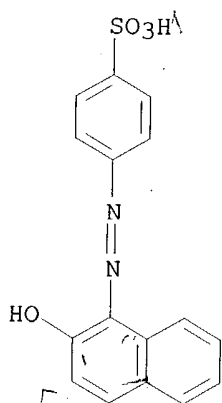
- AB Hair dyeing compns. contain water-soluble acid dyes, water-soluble polymers chosen from amphoteric polymers and cationic polymers containing 0.5-6.0% (as solid) N+, Fe compds., organic solvents, and water. The compns. show good colorfastness and give no damage to hair. A hair dye was formulated containing Merquat Plus 3330 (amphoteric polymer), FeCl₃, PhCH₂OH, EtOH, Japan Black 401, Japan Purple 401, Japan Orange 205, and water.
- ST acid dye hair amphoteric cationic polymer; iron chloride hair dye amphoteric polymer
- IT Dyes
 (acid; hair dyes containing acid dyes, amphoteric or cationic polymers, and iron compds. giving no damage to hair)
- IT Polyelectrolytes
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (amphoteric; hair dyes containing acid dyes, amphoteric or cationic polymers, and iron compds. giving no damage to hair)
- IT Hair preparations
 (dyes; hair dyes containing acid dyes, amphoteric or cationic polymers, and iron compds. giving no damage to hair)
- IT Quaternary ammonium compounds, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (polymers; hair dyes containing acid dyes, amphoteric or cationic polymers, and iron compds. giving no damage to hair)
- IT **633-96-5**, Japan Orange 205 **1064-48-8**, Japan Black 401 4430-18-6, Japan Purple 401 7705-08-0, Ferric chloride, biological studies **25136-75-8**, Merquat Plus 3330 **26590-05-6**, Merquat 550 159520-13-5, Leogard MGP 190976-47-7, Yukaformer W
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (hair dyes containing acid dyes, amphoteric or cationic polymers, and iron compds. giving no damage to hair)
- IT **633-96-5**, Japan Orange 205 **1064-48-8**, Japan Black 401 **25136-75-8**, Merquat Plus 3330 **26590-05-6**, Merquat 550

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(hair dyes containing acid dyes, amphoteric or cationic polymers, and iron compds. giving no damage to hair)

RN 633-96-5 HCAPLUS

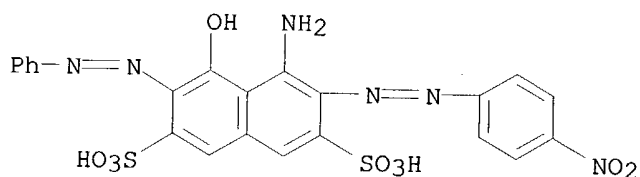
CN Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt (9CI) (CA INDEX NAME)



● Na

RN 1064-48-8 HCAPLUS

CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

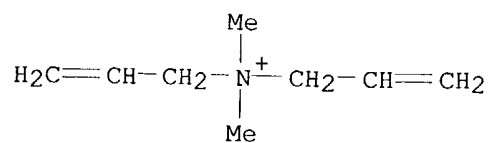
RN 25136-75-8 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

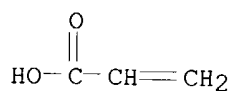
CRN 7398-69-8

CMF C8 H16 N . Cl



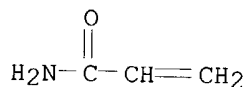
CM 2

CRN 79-10-7
CMF C3 H4 O2



CM 3

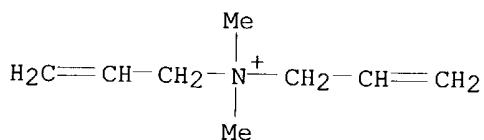
CRN 79-06-1
CMF C3 H5 N O



RN 26590-05-6 HCAPLUS
CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
2-propenamide (9CI) (CA INDEX NAME)

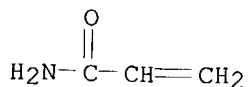
CM 1

CRN 7398-69-8
CMF C8 H16 N . Cl



CM 2

CRN 79-06-1
CMF C3 H5 N O



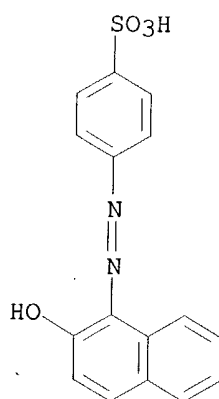
L21 ANSWER 31 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1996:641226 HCAPLUS
DN 125:284339
ED Entered STN: 31 Oct 1996
TI Aerosols containing acidic semipermanent hair dyes and other ingredients
in a double-layered container
IN Yoshihara, Toru; Kawase, Jiro
PA Kao Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 27 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM A61K007-13
ICS A61K007-00
CC 62-3 (Essential Oils and Cosmetics)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08198734	A2	19960806	JP 1995-225811	19950809
	JP 11130640	A2	19990518	JP 1998-222377	19950809
PRAI	JP 1994-315788		19941125		
	JP 1994-315789		19941125		
	JP 1995-225811		19950809		

CLASS

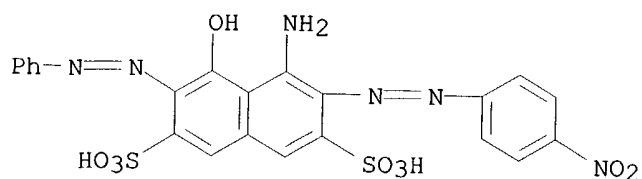
	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	JP 08198734	ICM	A61K007-13
		ICS	A61K007-00
AB	Aerosols containing acidic semipermanent hair dye compns. comprising e.g. ethanol 20, xanthane gum 1.0, black color number 401 0.02, purple color number 401 0.02, orange color number 205 0.09 benzyl alc. 10.0, glycolic acid 3.0, and NaOH and purified water to 100 weight% in a double-layered container (diagrammatic views given) are claimed. Acidic semipermanent hair dye compns. in the double-layered container showed storage-stability.		
ST	aerosol acidic semipermanent hair dye container		
IT	Containers (aerosols containing acidic semipermanent hair dyes and other ingredients in a double-layered container)		
IT	Polyamides, uses RL: NUU (Other use, unclassified); USES (Uses) (in preparing a double-layered container for aerosols containing acidic semipermanent hair dyes and other ingredients)		
IT	Petroleum gases, liquefied RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (propellant; aerosols containing acidic semipermanent hair dyes and other ingredients in a double-layered container)		
IT	Hair preparations		

- (dyes, acidic semipermanent; aerosols containing acidic semipermanent hair dyes and other ingredients in a double-layered container)
- IT Hair preparations
(sprays, aerosols containing acidic semipermanent hair dyes and other ingredients in a double-layered container)
- IT 50-21-5, Lactic acid, biological studies 77-92-9, Citric acid, biological studies 79-14-1, Glycolic acid, biological studies 100-51-6, Benzyl alcohol, biological studies **633-96-5** 872-50-4, N-Methylpyrrolidone, biological studies **1064-48-8** 1569-02-4 4430-18-6
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(aerosols containing acidic semipermanent **hair dyes** and other ingredients in a double-layered container)
- IT 9002-88-4, Polyethylene 9003-07-0, Polypropylene **25014-41-9**, **Polyacrylonitrile** 25067-34-9, Ethylene-vinyl alcohol copolymer 25610-19-9, Polyethylene phthalate
RL: NUU (Other use, unclassified); USES (Uses)
(in preparing a double-layered container for aerosols containing acidic semipermanent hair dyes and other ingredients)
- IT 115-10-6, Dimethyl ether
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(propellant; aerosols containing acidic semipermanent hair dyes and other ingredients in a double-layered container)
- IT **633-96-5 1064-48-8**
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(aerosols containing acidic semipermanent **hair dyes** and other ingredients in a double-layered container)
- RN 633-96-5 HCAPLUS
- CN Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt (9CI) (CA INDEX NAME)



● Na

- RN 1064-48-8 HCAPLUS
- CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

IT 25014-41-9, **Polyacrylonitrile**
 RL: NUU (Other use, unclassified); USES (Uses)
 (in preparing a double-layered container for aerosols containing acidic semipermanent hair dyes and other ingredients)
 RN 25014-41-9 HCAPLUS
 CN 2-Propenenitrile, homopolymer (9CI) (CA INDEX NAME)
 CM 1
 CRN 107-13-1
 CMF C3 H3 N



L21 ANSWER 32 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1996:521131 HCAPLUS
 DN 125:150746
 ED Entered STN: 30 Aug 1996
 TI Hair dyes
 IN Kuroda, Goro
 PA Chuo Eazooru Kagaku Kk, Japan
 SO Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08143434	A2	19960604	JP 1994-285449	19941118
	JP 3074443	B2	20000807		
PRAI	JP 1994-285449		19941118		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 08143434	ICM	A61K007-13

AB Hair dyes comprise noncolored powders (e.g. kaolin) 10-50, coloring agents 0.2-10, and sticking agents 2-30 weight% with/without water, solvents, stabilizers, surfactants, moisturizers and other substances. In a hair dye spray, 100 parts of the solution is mixed with 8-180 parts of propellants. A hair dye contained castor oil 3.0, liquid paraffin 3.5, POE

lauryl ether phosphate 12.0, Na POE lauryl ether phosphate 2.0, silicic acid 4.0, kaolin 20.0, cacao color 2.0, caramel 11.0, 40% **acrylic** resin alkanoilamine 12.0, phenoxyethanol 0.4, perfumes 0.1, and purified water 30.0 weight%. Hair dyes firmly adhered to hair after treatment.

ST hair dye kaolin colorant

IT Cocoa (Theobroma cacao)
(color; hair dyes)

IT Caramel (color)
Dyes
(hair dyes)

IT Carbon black, biological studies
Kaolin, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(hair dyes)

IT Silk
(powder; hair dyes)

IT Hair preparations
(dyes, hair dyes)

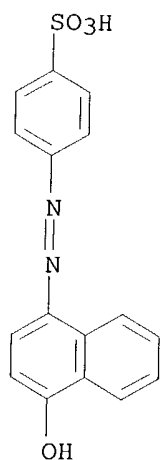
IT Hair preparations
(sprays, hair dyes)

IT 81-48-1 **523-44-4 1064-48-8** 1320-07-6 7720-78-7
14807-96-6, Talc, biological studies 15876-39-8 25086-89-9,
Vinylpyrrolidone-vinyl acetate copolymer
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(hair dyes)

IT **523-44-4 1064-48-8**
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(hair dyes)

RN 523-44-4 HCAPLUS

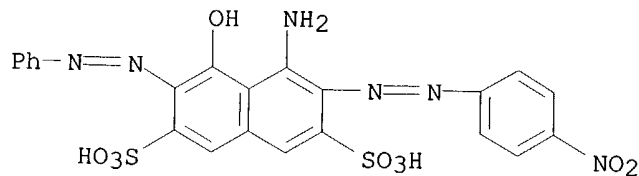
CN Benzenesulfonic acid, 4-[(4-hydroxy-1-naphthalenyl)azo]-, monosodium salt
(9CI) (CA INDEX NAME)



● Na

RN 1064-48-8 HCAPLUS

CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

L21 ANSWER 33 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1996:376927 HCAPLUS

DN 125:41439

ED Entered STN: 28 Jun 1996

TI Cleansing compositions containing sulfonate anionic surfactants and acidic dyes for hair

IN Matsushita, Yukiko; Amari, Jun

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM A61K007-075

ICS A61K007-13; C11D001-12; C11D001-14; C11D003-40

CC 62-3 (Essential Oils and **Cosmetics**)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08092042	A2	19960409	JP 1994-249992	19940919
PRAI	JP 1994-249992		19940919		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 08092042	ICM	A61K007-075
	ICS	A61K007-13; C11D001-12; C11D001-14; C11D003-40

AB The title compns., which show high cleansability and foamability at low pH, hair-dyeing effect, and no irritation, contain 5.0-50.0 weight% sulfonate anionic surfactants and 0.02-1.0 weight% acidic dyes and have pH 1.5-4.5. A shampoo was prepared from α -olefin Na sulfonate 10.0, maltitol hydroxyalkyl ether 2.0, polyoxyethylene-polyoxypropylene block copolymer 1.0, Orange Number 205 0.03, Purple Number 401 0.01, Black Number 401 0.02, benzyl

alc. 15.0, dimethyldiallylammonium chloride-acrylamide copolymer, citric acid 3.0, perfume, and H₂O to 100 weight%.

ST cleansing hair sulfonate anionic surfactant; acidic dye cleansing hair anionic surfactant

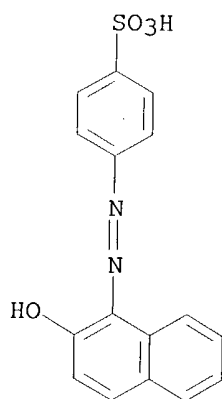
IT Shampoos

(cleansing compns. containing sulfonate anionic surfactants and acidic dyes for hair)

IT Sulfonic acids, biological studies

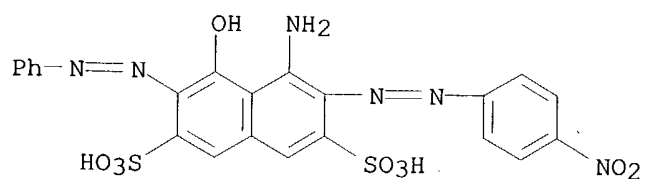
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES

- (Uses)
 (1-alkene, sodium salts, cleansing compns. containing sulfonate anionic surfactants and acidic dyes for hair)
- IT Surfactants
 (anionic, cleansing compns. containing sulfonate anionic surfactants and acidic dyes for hair)
- IT Amides, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (coco, N-sulfoethyl, salts; cleansing compns. containing sulfonate anionic surfactants and acidic dyes for hair)
- IT 107-68-6D, Methyltaurine, N-cocoyl derivs., salts **633-96-5**, Japan Orange 205 **1064-48-8**, Japan Black 401 **1934-21-0**, Japan Yellow 4 4430-18-6, Japan Purple 401
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (cleansing compns. containing sulfonate anionic surfactants and acidic dyes for hair)
- IT 100-51-6, Benzyl alcohol, biological studies 872-50-4, N-Methyl-2-pyrrolidone, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (dye fixer; cleansing compns. containing sulfonate anionic surfactants and acidic dyes for hair)
- IT **633-96-5**, Japan Orange 205 **1064-48-8**, Japan Black 401 **1934-21-0**, Japan Yellow 4
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (cleansing compns. containing sulfonate anionic surfactants and acidic dyes for hair)
- RN 633-96-5 HCAPLUS
 CN Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt (9CI) (CA INDEX NAME)



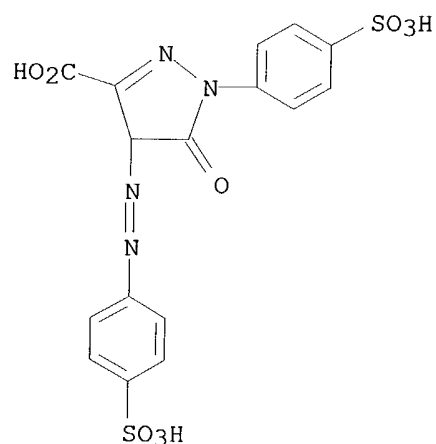
● Na

- RN 1064-48-8 HCAPLUS
 CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 1934-21-0 HCAPLUS
 CN 1H-Pyrazole-3-carboxylic acid, 4,5-dihydro-5-oxo-1-(4-sulfophenyl)-4-[(4-sulfophenyl)azo]-, trisodium salt (9CI) (CA INDEX NAME)

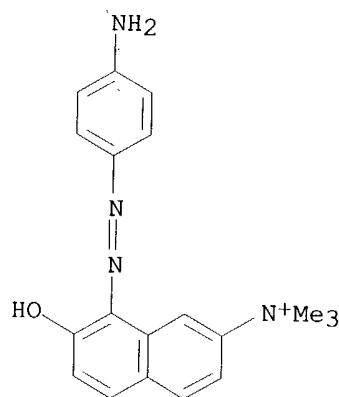


●3 Na

L21 ANSWER 34 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1995:831813 HCAPLUS
 DN 123:296214
 ED Entered STN: 04 Oct 1995
 TI The characterization of treated and dyed hair
 AU Guthrie, J. T.; Kazlauciunas, A.; Rongong, L.; Rush, S.
 CS Dep. Colour Chem. Dyeing, Univ. Leeds, Leeds, LS2 9JT, UK
 SO Dyes and Pigments (1995), 29(1), 23-44
 CODEN: DYPIDX; ISSN: 0143-7208
 PB Elsevier
 DT Journal
 LA English
 CC 62-3 (Essential Oils and **Cosmetics**)
 AB Studies have been undertaken to evaluate some of the factors that influence the dyeing of hair with dyes from the Arianor series. Dyed, bleached and untreated hair was examined by DTA, optical microscopy, SEM, X-ray diffractometry and surface potential assessment. It has been found

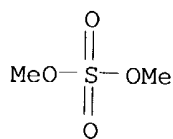
that marked changes in surface potentials arise on relatively mild treatment of human hair. Also clear are changes in the accessibility of the hair to dyes on treatment with various cosmetic systems. These changes have a marked influence on the nature of the dyeing process and on the hair/dye composite.

ST hair dye prepn Arianor
 IT Hair preparations
 (dyes, characterization of treated and dyed hair)
 IT 112-02-7, Genamin ctac 1643-20-5, Empigen ob **26381-41-9**,
 Arianor mahogany **55008-57-6**, Gafquat 755n 68123-13-7, Arianor
 steel blue
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (characterization of treated and **dyed hair**)
 IT **26381-41-9**, Arianor mahogany **55008-57-6**, Gafquat 755n
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (characterization of treated and **dyed hair**)
 RN 26381-41-9 HCAPLUS
 CN 2-Naphthalenaminium, 8-[(4-aminophenyl)azo]-7-hydroxy-N,N,N-trimethyl-,
 chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 55008-57-6 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with
 1-ethenyl-2-pyrrolidinone, compd. with dimethyl sulfate (9CI) (CA INDEX
 NAME)
 CM 1
 CRN 77-78-1
 CMF C2 H6 O4 S

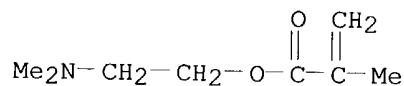


CM 2

CRN 30581-59-0
CMF (C8 H15 N O2 . C6 H9 N O)x
CCI PMS

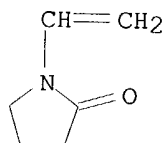
CM 3

CRN 2867-47-2
CMF C8 H15 N O2



CM 4

CRN 88-12-0
CMF C6 H9 N O



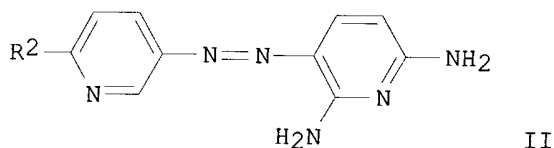
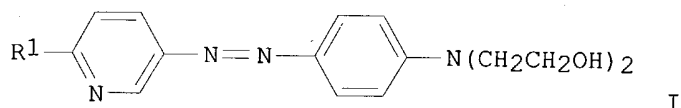
L21 ANSWER 35 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1995:267005 HCAPLUS
DN 122:33536
ED Entered STN: 01 Jan 1995
TI Pyridine azo dyes and means for hair dyeing
IN Loewe, Isolde; Clausen, Thomas; Balzer, Wolfgang R.
PA Wella AG, Germany
SO Ger. Offen., 9 pp.
CODEN: GWXXBX
DT Patent
LA German
IC ICM C09B029-09
ICS C09B029-42; A61K007-13
ICA C09B051-00; C09B001-22; C09B001-28; C09B011-12; C09B029-16
CC 41-3 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)
Section cross-reference(s): 62
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4241173	A1	19940609	DE 1992-4241173	19921207
	EP 601302	A1	19940615	EP 1993-116213	19931007
	EP 601302	B1	19960710		
	R: DE, ES, FR, GB, IT				
	ES 2056761	T3	19961116	ES 1993-116213	19931007
	JP 06207114	A2	19940726	JP 1993-338793	19931201
	JP 3510655	B2	20040329		
	BR 9304968	A	19940621	BR 1993-4968	19931207
	JP 2004107354	A2	20040408	JP 2003-403936	20031203
	PRAI DE 1992-4241173	A	19921207		
	JP 1993-338793	A3	19931201		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
DE 4241173	ICM	C09B029-09
	ICS	C09B029-42; A61K007-13
	ICA	C09B051-00; C09B001-22; C09B001-28; C09B011-12; C09B029-16
JP 2004107354	FTERM	4C083/AB082; 4C083/AC072; 4C083/AC102; 4C083/AC242; 4C083/AC552; 4C083/AC781; 4C083/AC851; 4C083/AC852; 4C083/AD011; 4C083/AD071; 4C083/AD091; 4C083/AD131; 4C083/AD321; 4C083/BB21; 4C083/CC36; 4C083/DD08; 4C083/DD27; 4C083/DD31; 4C083/DD41; 4C083/EE26; 4H057/AA01; 4H057/AA02; 4H057/BA24; 4H057/CA12; 4H057/CA29; 4H057/CB13; 4H057/CB16; 4H057/CB45; 4H057/CB46; 4H057/CC02; 4H057/DA01; 4H057/DA21

OS MARPAT 122:33536
GI



- AB Hair dyeing compns. contain I (R1 = NH2, C1-6-alkylamino, C2-4-hydroxyalkylamino) or II (R2 = H, NH2; C1-6-alkylamino, C2-4-hydroxyalkylamino). The dyes are more acid resistant than known azo dyes. Thus, 2-acetamido-5-aminopyridine-N-phenyldiethanolamine was prepared and deacetylated to give I (R1 = NH2) and incorporated into a hair-dyeing composition which showed color change after acid treatment 3.9, compared to 14.5 for 4-amino-4'-[bis(2-hydroxyethyl)amino]azobenzene.
- ST pyridine azo dye hair
- IT Hair
- (hair-dyeing compns. and preparation of pyridine azo dyes therefor)
- IT Dyes, azo
- (preparation of pyridine azo dyes for hair)
- IT 96-91-3 128-95-0, 1,4-Diaminoanthraquinone 632-99-5, C.I. Basic Violet 14 1220-94-6, C.I. Disperse Violet 4 2475-45-8, 1,4,5,8-

Tetraaminoanthraquinone 3248-91-7, C.I. Basic Violet 2 5307-14-2,
 2-Nitro-1,4-phenylenediamine **5858-51-5**, C.I. Acid Brown 4
 6358-09-4, 2-Amino-6-chloro-4-nitrophenol 8004-87-3, C.I. Basic Violet 1
 24905-87-1 27080-42-8 29705-39-3 33229-34-4 56932-44-6
 65235-31-6 84041-77-0 86722-66-9 95576-89-9 99610-72-7
 99788-75-7 100418-33-5 104226-19-9 104333-00-8 104516-93-0
 114087-41-1 159947-25-8

RL: TEM (Technical or engineered material use); USES (Uses)
 (hair-dyeing compns. containing azo and other
 dyes)

IT 28365-08-4

RL: TEM (Technical or engineered material use); USES (Uses)
 (hair-dyeing compns. containing azo pyridine dyes)

IT 9012-76-4, Chitosan

RL: MOA (Modifier or additive use); USES (Uses)
 (hair-dyeing compns. containing azo pyridine dyes and polymeric materials)

IT 9002-89-5 **9003-01-4**, Poly(**acrylic** acid) 9003-20-7
 9003-39-8, Poly(vinylpyrrolidone) **25014-41-9** **25087-26-7**
 , Poly(**methacrylic** acid)

RL: MOA (Modifier or additive use); USES (Uses)
 (hair-dyeing compns. containing azo pyridine dyes and polymers)

IT 159947-20-3P 159947-21-4P 159947-26-9P 159947-27-0P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
 (Reactant or reagent)

(intermediate; preparation of pyridine azo dyes for hair)

IT 159947-22-5P 159947-23-6P 159947-24-7P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material
 use); PREP (Preparation); USES (Uses)
 (preparation of azo pyridine dyes for hair)

IT 120-07-0, N-Phenyldiethanolamine 541-41-3, Ethyl chloroformate
 4093-89-4 25948-12-3 29958-14-3, 2-Acetamido-5-aminopyridine

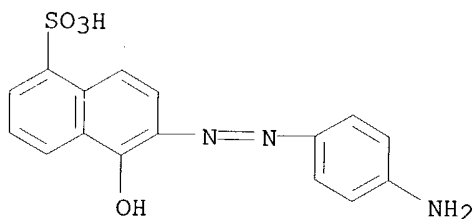
RL: RCT (Reactant); RACT (Reactant or reagent)
 (starting material; preparation of pyridine azo dyes for hair)

IT **5858-51-5**, C.I. Acid Brown 4

RL: TEM (Technical or engineered material use); USES (Uses)
 (hair-dyeing compns. containing azo and other
 dyes)

RN 5858-51-5 HCAPLUS

CN 1-Naphthalenesulfonic acid, 6-[(4-aminophenyl)azo]-5-hydroxy-, monosodium
 salt (9CI) (CA INDEX NAME)



● Na

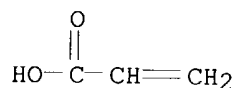
IT **9003-01-4**, Poly(**acrylic** acid) **25014-41-9**

25087-26-7, Poly(**methacrylic** acid)

RL: MOA (Modifier or additive use); USES (Uses)

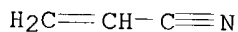
(hair-dyeing compns. containing azo pyridine dyes and polymers)
 RN 9003-01-4 HCAPLUS
 CN 2-Propenoic acid, homopolymer (9CI) (CA INDEX NAME)

CM 1
 CRN 79-10-7
 CMF C3 H4 O2



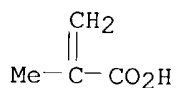
RN 25014-41-9 HCAPLUS
 CN 2-Propenenitrile, homopolymer (9CI) (CA INDEX NAME)

CM 1
 CRN 107-13-1
 CMF C3 H3 N



RN 25087-26-7 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1
 CRN 79-41-4
 CMF C4 H6 O2



L21 ANSWER 36 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1994:307076 HCAPLUS
 DN 120:307076
 ED Entered STN: 11 Jun 1994
 TI Clear leave-on hair treatment compositions
 IN Hoshowski, Myra Ann
 PA Helene Curtis, Inc., USA
 SO Eur. Pat. Appl., 20 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 IC ICM A61K007-00
 ICS A61K007-13; A61K007-42
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	EP 590538	A1	19940406	EP 1993-115468	19930924
	EP 590538	B1	19961127		
	R: DE, DK, ES, FR, GB, IT, SE				
	US 6048520	A	20000411	US 1993-105008	19930811
PRAI	US 1992-950825	A	19920924		
	US 1993-105008	A	19930811		

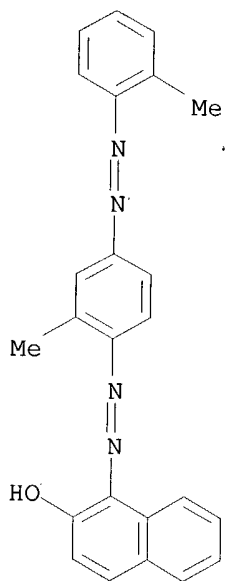
CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 590538	ICM	A61K007-00
	ICS	A61K007-13; A61K007-42
US 6048520	ECLA	A61K007/00M4
AB	A transparent leave-on hair treatment composition comprises capsules of a water-insol. hair-treating compound encased in a shell material, such as gelatin or acacia gum. The aqueous leave-on composition is applied to the hair and the water-insol. hair-treating compound is released from the capsules to treat the hair. The shell disintegrates into sufficiently small residual particles such that the phys. and aesthetic properties of the hair are retained. Thus, a styling gel contained encapsulated dimethicone (Arcapsule MP912) 1.75, Carbopol-940 0.40, triethanolamine 0.55, tetra-Na EDTA 0.04, PVA-VA copolymer 4.10, nonoxynol-10 0.10, fragrance 0.05, preservative 0.45, and soft water to 100.00%.	
ST	hair conditioner leave on encapsulated siloxane	
IT	Protein hydrolyzates	
	RL: BIOL (Biological study)	
	(Et esters, encapsulated, leave-on hair conditioners containing)	
IT	Keratins	
	Paraffin oils	
	Safflower oil	
	RL: BIOL (Biological study)	
	(encapsulated, leave-on hair conditioners containing)	
IT	Molasses	
	Acrylic polymers, biological studies	
	Albumins, biological studies	
	Fats and Glyceridic oils	
	Gelatins, biological studies	
	Glutens	
	Polyamides, biological studies	
	Polycarbonates, biological studies	
	Polyesters, biological studies	
	Polyimides, biological studies	
	Shellac	
	Waxes and Waxy substances	
	RL: BIOL (Biological study)	
	(hair-conditioning agent encapsulation by, in manufacture of leave-on hair preparation)	
IT	Fatty acids, biological studies	
	RL: BIOL (Biological study)	
	(polyhydroxy, encapsulated, leave-on hair conditioners containing)	
IT	Milk	
	(solids, hair-conditioning agent encapsulation by, in manufacture of leave-on hair preparation)	
IT	Alcohols, biological studies	
	RL: BIOL (Biological study)	
	(C16-18, encapsulated, leave-on hair conditioners containing)	
IT	Alcohols, compounds	
	RL: BIOL (Biological study)	
	(C16-18, ethoxylated, encapsulated, leave-on hair conditioners containing)	

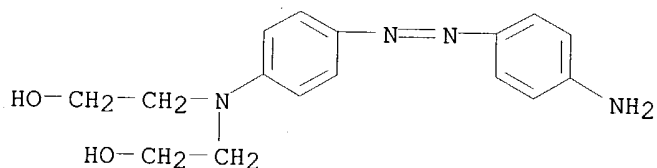
- IT Fats and Glyceridic oils
 - RL: BIOL (Biological study)
 - (almond, encapsulated, leave-on hair conditioners containing)
- IT Siloxanes and Silicones, biological studies
 - RL: BIOL (Biological study)
 - (amino, encapsulated, leave-on hair conditioners containing)
- IT Fats and Glyceridic oils
 - RL: BIOL (Biological study)
 - (apricot kernel, encapsulated, leave-on hair conditioners containing)
- IT Fats and Glyceridic oils
 - RL: BIOL (Biological study)
 - (avocado, encapsulated, leave-on hair conditioners containing)
- IT Hair preparations
 - (conditioners, leave-on, encapsulated conditioning agents in)
- IT Siloxanes and Silicones, biological studies
 - RL: PREP (Preparation)
 - (di-Me, hair-conditioning agent encapsulation by, in manufacture of leave-on hair preparation)
- IT Hair preparations
 - (dyes, leave-on, encapsulated water-insol. dyes in)
- IT Fats and Glyceridic oils
 - RL: BIOL (Biological study)
 - (grape seed, encapsulated, leave-on hair conditioners containing)
- IT Castor oil
 - Tallow
 - RL: PREP (Preparation)
 - (hydrogenated, hair-conditioning agent encapsulation by, in manufacture of leave-on hair preparation)
- IT Collagens, compounds
 - Keratins
 - RL: BIOL (Biological study)
 - (hydrolyzates, encapsulated, leave-on hair conditioners containing)
- IT Steroids, biological studies
 - RL: BIOL (Biological study)
 - (hydroxy, encapsulated, leave-on hair conditioners containing)
- IT Steroids, compounds
 - RL: BIOL (Biological study)
 - (hydroxy, ethoxylated, encapsulated, leave-on hair conditioners containing)
- IT Lanolin
 - RL: BIOL (Biological study)
 - (hydroxylated, encapsulated, leave-on hair conditioners containing)
- IT Waxes and Waxy substances
 - RL: BIOL (Biological study)
 - (jojoba, encapsulated, leave-on hair conditioners containing)
- IT Alcohols, esters
 - RL: BIOL (Biological study)
 - (lanolin, acetylated, encapsulated, leave-on hair conditioners containing)
- IT Fatty acids, esters
 - RL: BIOL (Biological study)
 - (lanolin, iso-Pr esters, encapsulated, leave-on hair conditioners containing)
- IT Alcohols, compounds
 - RL: BIOL (Biological study)
 - (long-chain, ethoxylated propoxylated, encapsulated, leave-on hair conditioners containing)
- IT Caseins, compounds
 - RL: PREP (Preparation)
 - (metal complexes, hair-conditioning agent encapsulation by, in manufacture of leave-on hair preparation)

- IT Siloxanes and Silicones, biological studies
RL: BIOL (Biological study)
(polyether-, encapsulated, leave-on hair conditioners containing)
- IT Alcohols, compounds
RL: BIOL (Biological study)
(propoxylated, lanolin, encapsulated, leave-on hair conditioners containing)
- IT Fats and Glyceridic oils
RL: BIOL (Biological study)
(sesame, encapsulated, leave-on hair conditioners containing)
- IT Sulfones
RL: PREP (Preparation)
(vinyl, polymers, hair-conditioning agent encapsulation by, in manufacture of leave-on hair preparation)
- IT Fats and Glyceridic oils
RL: BIOL (Biological study)
(wheat germ, encapsulated, leave-on hair conditioners containing)
- IT 52794-79-3, Isostearamide DEA 99332-35-1
RL: BIOL (Biological study)
(encapsulated, leave-on hair conditioners containing)
- IT 81-48-1, D And C Violet no.2 **85-83-6**, Solvent red 24
2475-45-8, Disperse blue 1 2512-29-0, Pigment yellow 1
20721-50-0, Disperse black 9
RL: BIOL (Biological study)
(encapsulated, leave-on **hair dye** preps. containing)
- IT 134-09-8, Menthyl anthranilate 136-44-7, Glyceryl PABA 5466-77-3
6969-49-9, Octyl salicylate 58817-05-3, Octyl dimethyl PABA
RL: BIOL (Biological study)
(hair preps. containing encapsulated conditioners and)
- IT 57-50-1, Sucrose, biological studies 112-72-1, Myristyl alcohol
555-43-1, Glycerol tristearate 1323-83-7, Glycerol distearate
2726-73-0, 12-Hydroxystearyl alcohol 7047-84-9, Aluminum monostearate
9000-01-5, Gum acacia 9002-18-0, Agar 9002-89-5, Polyvinyl alcohol
9003-01-4, Polyacrylic acid 9003-39-8,
Polyvinylpyrrolidone 9003-53-6, Polystyrene **9003-54-7**,
Poly(styrene-**acrylonitrile**) 9004-32-4, Sodium CMC 9004-35-7,
Cellulose acetate 9004-36-8, Cellulose acetate butyrate 9004-38-0,
Cellulose acetate phthalate 9004-54-0, Dextran, biological studies
9004-57-3, Ethyl cellulose 9004-70-0, Cellulose nitrate 9005-25-8,
Starch, biological studies 9005-35-0, Calcium alginate 9005-38-3,
Sodium alginate **9011-14-7**, Poly(methyl **methacrylate**)
9011-16-9, Methyl vinyl ether-maleic anhydride copolymer 9012-36-6,
Agarose 9050-36-6, Maltodextrin 11099-07-3, Stearin 24980-41-4,
Poly(ϵ -caprolactone) 24991-23-9, Polyglutamic acid 25104-18-1,
Polylysine 25248-42-4, Poly(ϵ -caprolactone) 25322-68-3,
Polyoxyethylene 25513-46-6, Polyglutamic acid 26009-03-0, Polyglycolic
acid 26124-68-5, Polyglycolic acid 26657-95-4, Glycerol dipalmitate
26657-96-5, Glycerol monopalmitate 31566-31-1, Glycerol monostearate
36653-82-4, Cetyl alcohol 38000-06-5, Polylysine 53237-50-6, Polyvinyl
acetate phthalate 120253-63-6 155143-69-4 155143-71-8
RL: BIOL (Biological study)
(hair-conditioning agent encapsulation by, in manufacture of leave-on hair
preparation)
- IT 79-10-7D, **Acrylic acid**, salts, polymers 9000-07-1, Carrageenan
9000-30-0, Guar gum 9000-36-6, Karaya gum 9002-98-6, Polyethyleneimine
9003-32-1, Poly(ethyl **acrylate**) 11138-66-2, Xanthan
gum 24937-78-8, Ethylene-vinyl acetate copolymer
RL: BIOL (Biological study)
(suspending agent, leave-on hair preps. containing encapsulated

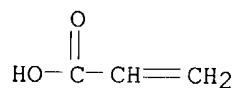
conditioners and)
 IT 85-83-6, Solvent red 24 20721-50-0, Disperse black 9
 RL: BIOL (Biological study)
 (encapsulated, leave-on **hair dye** preps. containing)
 RN 85-83-6 HCAPLUS
 CN 2-Naphthalenol, 1-[[2-methyl-4-[(2-methylphenyl)azo]phenyl]azo]- (9CI)
 (CA INDEX NAME)



RN 20721-50-0 HCAPLUS
 CN Ethanol, 2,2'-[[4-[(4-aminophenyl)azo]phenyl]imino]bis- (9CI) (CA INDEX NAME)



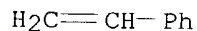
IT 9003-01-4, Polyacrylic acid 9003-54-7,
 Poly(styrene-**acrylonitrile**) 9011-14-7, Poly(methyl
methacrylate)
 RL: BIOL (Biological study)
 (hair-conditioning agent encapsulation by, in manufacture of leave-on hair
 preparation)
 RN 9003-01-4 HCAPLUS
 CN 2-Propenoic acid, homopolymer (9CI) (CA INDEX NAME)
 CM 1
 CRN 79-10-7
 CMF C3 H4 O2



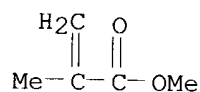
RN 9003-54-7 HCAPLUS
 CN 2-Propenenitrile, polymer with ethenylbenzene (9CI) (CA INDEX NAME)
 CM 1
 CRN 107-13-1
 CMF C3 H3 N



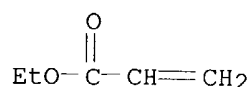
CM 2
 CRN 100-42-5
 CMF C8 H8



RN 9011-14-7 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, methyl ester, homopolymer (9CI) (CA INDEX NAME)
 CM 1
 CRN 80-62-6
 CMF C5 H8 O2



IT **9003-32-1, Poly(ethyl acrylate)**
 RL: BIOL (Biological study)
 (suspending agent, leave-on hair prepns. containing encapsulated conditioners and)
 RN 9003-32-1 HCAPLUS
 CN 2-Propenoic acid, ethyl ester, homopolymer (9CI) (CA INDEX NAME)
 CM 1
 CRN 140-88-5
 CMF C5 H8 O2



L21 ANSWER 37 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1993:588281 HCAPLUS
 DN 119:188281
 ED Entered STN: 30 Oct 1993
 TI Acidic hair dyeing compositions
 IN Ishikawa, Hiroshi; Hyodo, Yoshiho; Arai, Yasuhiro
 PA Shiseido Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

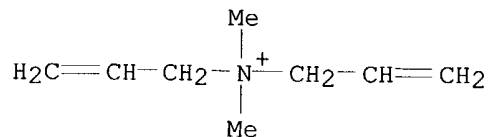
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05194161	A2	19930803	JP 1992-231326	19920806
PRAI	JP 1991-232190		19910820		

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP	05194161	ICM	A61K007-13
AB	The title compns., which show coloring power and are shampoo-resistant, contain 0.01-15.0 weight% cationic compds. and optionally 0.01-5.0 weight% silicones. Japan Black 401 0.2, Japan Purple 401 0.3, Japan Yellow 4 0.1, benzyl alc. 5.0, tetrahydrofurfuryl alc. 12.0, citric acid 2.0, stearyltrimethylammonium chloride 0.3, hydroxyethyl cellulose 3.0, and H2O to 100% were mixed to give a dyeing composition, which showed good coloring power and rinse effect.		
ST	hair acid dye cation silicone		
IT	Siloxanes and Silicones, biological studies		
	RL: BIOL (Biological study)		
	(hair dyeing compns. containing acidic dyes and cations and)		
IT	Hair preparations		
	(dyes, acidic dyes and cations in, with rinse effect)		
IT	112-03-8, Stearyltrimethylammonium chloride 26590-05-6 , Merquat 550 53633-54-8 , Gafquat 755 63601-33-2, Polyquart H 81859-24-7		
	RL: BIOL (Biological study)		
	(hair dyeing compns. containing acidic dyes and)		
IT	1064-48-8 , Japan Black 401 1934-21-0 , Japan Yellow 4 4430-18-6, Japan Purple 401		
	RL: BIOL (Biological study)		
	(hair dyeing compns. containing cations and)		
IT	26590-05-6 , Merquat 550 53633-54-8 , Gafquat 755		
	RL: BIOL (Biological study)		
	(hair dyeing compns. containing acidic dyes and)		
RN	26590-05-6 HCAPLUS		
CN	2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)		

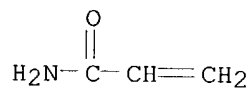
CM 1

CRN 7398-69-8
CMF C8 H16 N . Cl



CM 2

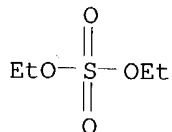
CRN 79-06-1
CMF C3 H5 N O



RN 53633-54-8 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 64-67-5
CMF C4 H10 O4 S

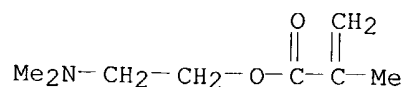


CM 2

CRN 30581-59-0
CMF (C8 H15 N O2 . C6 H9 N O)x
CCI PMS

CM 3

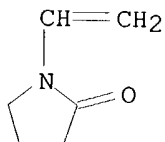
CRN 2867-47-2
CMF C8 H15 N O2



CM 4

CRN 88-12-0

CMF C6 H9 N O



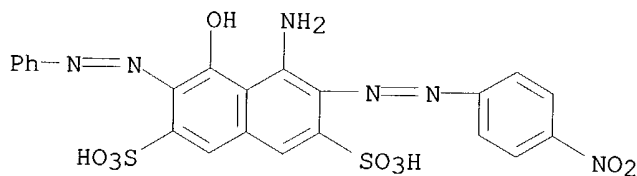
IT 1064-48-8, Japan Black 401 1934-21-0, Japan Yellow 4

RL: BIOL (Biological study)

(hair dyeing compns. containing cations and)

RN 1064-48-8 HCAPLUS

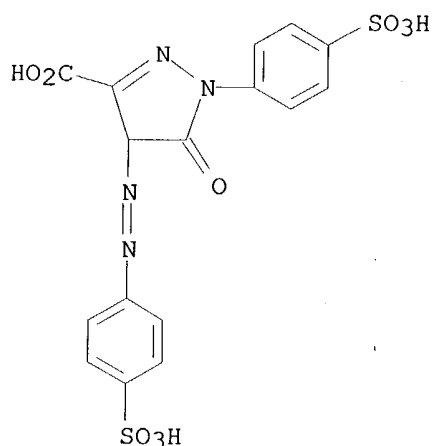
CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 1934-21-0 HCAPLUS

CN 1H-Pyrazole-3-carboxylic acid, 4,5-dihydro-5-oxo-1-(4-sulfophenyl)-4-[(4-sulfophenyl)azo]-, trisodium salt (9CI) (CA INDEX NAME)



● 3 Na

L21 ANSWER 38 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1993:502995 HCAPLUS
 DN 119:102995
 ED Entered STN: 04 Sep 1993
 TI Hair dyeing compositions containing quaternary ammonium polymers
 IN Fukunishi, Akira; Rikuta, Kazufumi
 PA Sanyo Chemical Ind Ltd, Japan; Tokyo Eazoru Kagaku Kk
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05112438	A2	19930507	JP 1992-56903	19920206
	JP 07005454	B4	19950125		
PRAI	JP 1991-246577		19910831		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 05112438	ICM	A61K007-13

AB The title aqueous compns. contain (co)polymers of dialkyldi[(meth)allyl]ammonium salts, C black and/or organic pigments, and acidic dyes. The compns. show good color build-up property, quickly develop shampoo- and sweat-resistant colors, and do not damage the hair. N,N-dimethyl-3,5-methylenepiperidinium chloride polymer 1.5, C black 2.5, acidic dyes (0.5:1:1 Acid Red, Resorcin Brown, and Naphthol Blue Black) 0.5, benzyl alc. 10, N-methylpyrrolidone 15, citric acid 1.5, hydroxy cellulose 1.0, EtOH 7, and H2O to 100% were mixed to give a dyeing composition
 ST hair dye quaternary ammonium polymer; carbon black pigment hair dye; allylammonium polymer acidic dye hair
 IT Carbon black, biological studies

RL: BIOL (Biological study)
(hair dyeing compns. containing quaternary ammonium polymers and acidic dyes and, shampoo-resistant)

IT Hair preparations
(dyes, containing carbon black and organic pigments and quaternary ammonium polymers and acidic dyes, shampoo-resistant)

IT Quaternary ammonium compounds, polymers
RL: BIOL (Biological study)
(polymers, hair dyeing compns. containing carbon black and organic pigments and acidic dyes and, shampoo-resistant)

IT 26062-79-3, Dimethyldiallylammonium chloride homopolymer 26062-80-6
26590-05-6, Acrylamide-dimethyldiallylammonium chloride copolymer
RL: BIOL (Biological study)
(hair dyeing compns. containing carbon black and organic pigments and acidic dyes and, shampoo-resistant)

IT **1064-48-8**, Naphthol Blue Black 1320-07-6, Resorcin Brown
11119-62-3, Acid Red
RL: BIOL (Biological study)
(hair dyeing compns. containing carbon black and organic pigments and quaternary ammonium polymers and, shampoo-resistant)

IT 147-14-8 3520-72-7 **6448-95-9**, Brilliant Fast Scarlet
RL: BIOL (Biological study)
(hair dyeing compns. containing quaternary ammonium polymers and acidic dyes and, shampoo-resistant)

IT **26590-05-6, Acrylamide**-dimethyldiallylammonium chloride copolymer
RL: BIOL (Biological study)
(hair dyeing compns. containing carbon black and organic pigments and acidic dyes and, shampoo-resistant)

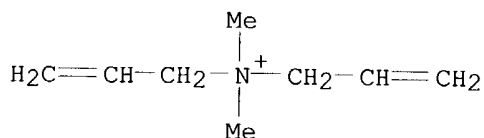
RN 26590-05-6 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

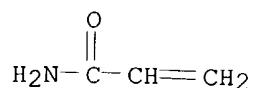
CMF C8 H16 N . Cl



● Cl⁻

CM 2

CRN 79-06-1
CMF C3 H5 N O



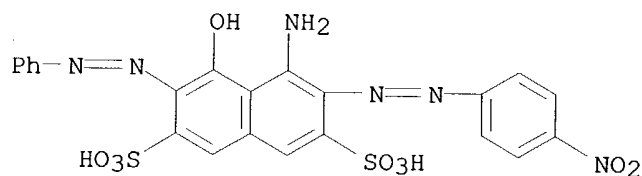
IT **1064-48-8**, Naphthol Blue Black

RL: BIOL (Biological study)

(**hair dyeing** compns. containing carbon black and organic pigments and quaternary ammonium polymers and, shampoo-resistant)

RN 1064-48-8 HCAPLUS

CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

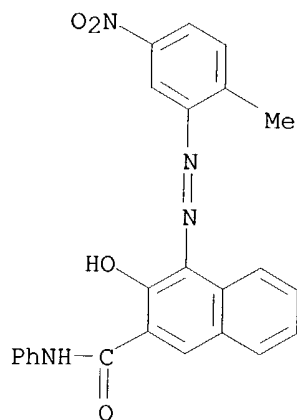
IT **6448-95-9**, Brilliant Fast Scarlet

RL: BIOL (Biological study)

(**hair dyeing** compns. containing quaternary ammonium polymers and acidic **dyes** and, shampoo-resistant)

RN 6448-95-9 HCAPLUS

CN 2-Naphthalenecarboxamide, 3-hydroxy-4-[(2-methyl-5-nitrophenyl)azo]-N-phenyl- (9CI) (CA INDEX NAME)



L21 ANSWER 39 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1993:219464 HCAPLUS
 DN 118:219464
 ED Entered STN: 29 May 1993
 TI Hair dyeing compositions

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

IN Fukunishi, Akira; Rikuta, Kazufumi
 PA Sanyo Chemical Industries Ltd., Japan; Tokyo Eazoru Kagaku Kk
 SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM A61K007-13

CC 62-3 (Essential Oils and **Cosmetics**)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05025026	A2	19930202	JP 1991-208440	19910724
	JP 3499573	B2	20040223		
PRAI	JP 1991-208440		19910724		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 05025026	ICM	A61K007-13

JP 05025026 ICM A61K007-13

AB Aqueous hair dyeing compns., which develop fast and shampoo-resistant colors, contain amphoteric polymers, carbon black, and acidic dyes. An aqueous hair dyeing composition containing copolymer of CH₂:CMeCO₂CH₂CH₂N+Me₂CH₂CO₂- and Bu **methacrylate** 1.5, carbon black 2.5, and 0.5:1:1 Japan Red 106-Japan Brown 201-Japan Black 401 mixture 0.5 weight% was formulated.

ST hair acidic dye carbon black; amphoteric **polymethacrylate** dye

IT Polymers, biological studies

RL: BIOL (Biological study)

(amphoteric, hair dyeing compns. containing carbon black and acidic dyes and, shampoo-resistant)

IT Carbon black, biological studies

RL: BIOL (Biological study)

(hair dyeing compns. containing amphoteric **polymethacrylates** and acidic dyes and, shampoo-resistant)

IT Hair preparations

(dyes, containing amphoteric **polymethacrylates** and carbon black and acidic dyes, shampoo-resistant)

IT **1064-48-8**, Japan Black 401 1320-07-6, Japan Brown 201 3520-42-1, Japan Red 106

RL: BIOL (Biological study)

(hair dyeing compns. containing amphoteric **polymethacrylates** and carbon black and, shampoo-resistant)

IT **136372-47-9 147398-77-4 147398-78-5**

RL: BIOL (Biological study)

(hair dyeing compns. containing carbon black and acidic dyes and, shampoo-resistant)

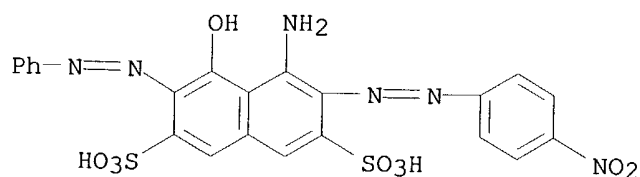
IT **1064-48-8**, Japan Black 401

RL: BIOL (Biological study)

(hair dyeing compns. containing amphoteric **polymethacrylates** and carbon black and, shampoo-resistant)

RN 1064-48-8 HCAPLUS

CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

IT 136372-47-9 147398-77-4 147398-78-5

RL: BIOL (Biological study)

(hair dyeing compns. containing carbon black and acidic dyes and, shampoo-resistant)

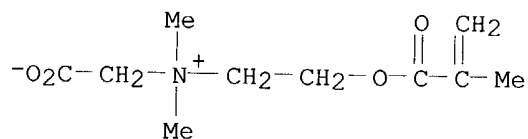
RN 136372-47-9 HCAPLUS

CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, inner salt, polymer with butyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 62723-61-9

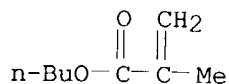
CMF C10 H17 N O4



CM 2

CRN 97-88-1

CMF C8 H14 O2



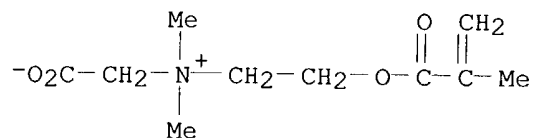
RN 147398-77-4 HCAPLUS

CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, inner salt, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

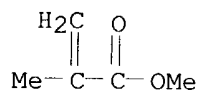
CRN 62723-61-9

CMF C10 H17 N O4



CM 2

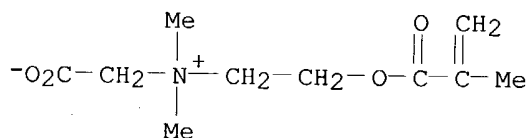
CRN 80-62-6
CMF C5 H8 O2



RN 147398-78-5 HCAPLUS
CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, inner salt, polymer with ethenyl acetate (9CI) (CA INDEX NAME)

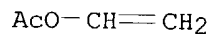
CM 1

CRN 62723-61-9
CMF C10 H17 N O4



CM 2

CRN 108-05-4
CMF C4 H6 O2



L21 ANSWER 40 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1992:46019 HCAPLUS
DN 116:46019
ED Entered STN: 08 Feb 1992
TI Hair dyes containing glyceryl stearates
IN Tsujino, Yoshio
PA Yamahatsu Sangyo Kaisha, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DT Patent

LA Japanese
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and **Cosmetics**)
 Section cross-reference(s): 41

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03157320	A2	19910705	JP 1989-297854	19891115
	JP 2890126	B2	19990510		
	WO 9218094	A1	19921029	WO 1991-JP509	19910417
	W: KR, US				
	US 5403357	A	19950404	US 1992-955874	19921211
PRAI	JP 1989-297854		19891115		
	WO 1991-JP509	W	19910417		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 03157320	ICM	A61K007-13
US 5403357	ECLA	A45D019/02; A45D034/04C; A61K007/06Z; A61K007/13
OS	MARPAT 116:46019	

AB A hair dye composition contains pigment, resin, an organic solvent, and ≥ 1 compound selected from the group comprising (1) monoglyceryl stearate, (2) polyglyceryl stearate, (3) sorbitan stearate, (4) polyoxyethylenesorbitan stearate, (5) polyoxyethylene sorbitol stearate $R1(OCH_2CH_2)bOCH_2[CHO(CH_2CH_2O)cR_2]_4CH_2O(CH_2CH_2O)dR_3$ ($R_1, R_2, R_3 = H$, stearoyl, but not $R_1 = R_2 = R_3 = H$; $b+4c+d = 1-10$), (6) polyoxyethylene glyceryl stearate, and (7) propylene glycol stearate. This formulation prevents hardening of dyes at the site of application. A hair dye consisted of Yukaformer AM 75 Black 35.0, EtOH 64.75, and glyceryl distearate 0.25 parts by weight

ST hair dye glyceryl stearate

IT Siloxanes and Silicones, biological studies
 RL: BIOL (Biological study)
 (Me Ph, hair dyes containing stearic acid derivs. and)

IT Hair preparations
 (dyes, stearic acid derivs. and resins and organic solvents in)

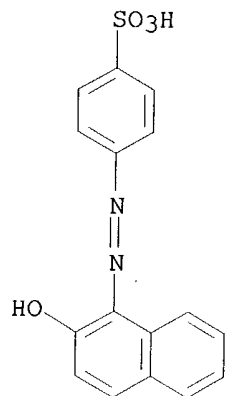
IT 57-11-4D, Stearic acid, esters 1323-83-7, Glyceryl distearate 1338-41-6, Sorbitan monostearate 9005-67-8 9005-71-4 12694-22-3, Diglyceryl monostearate 12709-64-7, Decaglyceryl tristearate 26658-19-5, Sorbitan tristearate 31566-31-1, Glyceryl monostearate 34424-97-0, Hexaglyceryl distearate 39529-26-5, Decaglyceryl decastearate 41080-66-4 53195-79-2 95461-64-6, Decaglyceryl pentastearate 138417-56-8
 RL: BIOL (Biological study)
 (hair dyes containing)

IT **633-96-5**, Japan Orange Number 205 **136372-47-9**, Yukaformer AM-75 Black **136372-47-9**, Yukaformer AM 75 Brown 138361-81-6, Plassize L 53 Amber A 138361-82-7, Plassize L 53 Black CA 138361-83-8, Plassize L 53DA
 RL: BIOL (Biological study)
 (hair dyes containing stearic acid derivs. and)

IT **633-96-5**, Japan Orange Number 205 **136372-47-9**, Yukaformer AM-75 Black
 RL: BIOL (Biological study)
 (hair dyes containing stearic acid derivs. and)

RN 633-96-5 HCAPLUS

CN Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt (9CI) (CA INDEX NAME)

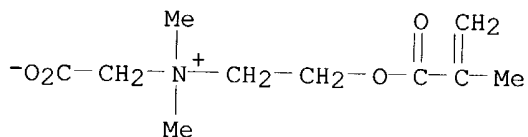


● Na

RN 136372-47-9 HCAPLUS
 CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, inner salt, polymer with butyl 2-methyl-2-propenoate (9CI)
 (CA INDEX NAME)

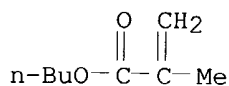
CM 1

CRN 62723-61-9
 CMF C10 H17 N O4



CM 2

CRN 97-88-1
 CMF C8 H14 O2



L21 ANSWER 41 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1991:49342 HCAPLUS
 DN 114:49342
 ED Entered STN: 09 Feb 1991
 TI Wave-setting hair dye.
 IN Watanabe, Katsuhiko; Ono, Tatsuo; Ota, Toshio; Minei, Tadayuki; Horikoshi,

Toshio
 PA San-Ei Kagaku Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 31 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM A61K007-13
 ICS A61K007-09
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02076807	A2	19900316	JP 1989-150744	19890614
	JP 2842621	B2	19990106		
PRAI	JP 1988-149043		19880616		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 02076807	ICM	A61K007-13
	ICS	A61K007-09

AB The title preparation consists of composition A and B. The composition A contains (1)

≥1 reducing agent (2-19% by weight) selected from mercapto compds., sulfites, and bisulfites, (2) an alkali (0.01-15.0%), (3), a water-soluble polymer (0.1-10.0%), or a mixture of the polymer (or a higher alc.) 1-30% and an anion activator 0.1-8.0%, or a combination of the components, with the viscosity of 100-40,000 cP and pH 2-12. The composition B consists of (1) ≥1 dye 1-30% by weight, (2) a water-soluble polymer 0.1-10.0%, or a mixture of the polymer (or a higher alc.) 1-30 and an anion activator 0.1-8.0%, or a combination of the components, with the viscosity of 30-50,000 cP. The hair preparation may also contain 0.5-25% oxidizing agent consisting of (1) ≥1 compound selected from bromates, perborates, H₂O₂, persulfates, and peracetates, and (2) ≥1 compound selected from cation activators, amphoteric and anion activators. It may also contain alcs., other cation activators, amphoteric activators, and soluble polymers. Numerous components are listed.

ST hair wavesetter dye

IT Alcohols, biological studies
 Alkali metals, biological studies
 Mercapto compounds
 Polymers, biological studies
 Sulfites

RL: BIOL (Biological study)
 (hair wave-setting and dye compns. containing)

IT Hair preparations
 (dyes, containing wave-setting agents)

IT Sulfites
 RL: BIOL (Biological study)
 (hydrogen, hair wave-setting and dye compns. containing)

IT Hair preparations
 (wave-setting, containing dyes)

IT 52-89-1, L-Cysteine hydrochloride 57-50-1D, Sucrose, acetylated
 102-71-6, Triethanolamine, biological studies 112-02-7,
 Cetyltrimethylammonium chloride 112-03-8 112-72-1, Myristyl alcohol
 112-92-5, Stearyl alcohol 123-03-5, Cetylpyridinium chloride 124-28-7,
 Stearyldimethylamine 139-96-8, Lauryl sulfate triethanolamine salt
 141-43-5, Monoethanolamine, biological studies 151-21-3, Sodium lauryl
 sulfate, biological studies 518-47-8 **523-44-4**, Japan Orange
 402 **587-98-4**, Japan Yellow 406 683-10-3,

Lauryldimethylaminoacetic acid betaine 846-70-8 860-22-0, Japan Blue 2
 915-67-3, Japan Red 2 **1064-48-8**, Japan Black 401 1120-01-0,
 Sodium cetyl sulfate 1658-56-6, Japan Red Number 506 **1934-21-0**,
 Japan Yellow 4 2321-07-5, Japan Yellow 201 2353-45-9, Japan Green 3
 2650-18-2, Japan Blue 205 **2783-94-0**, Japan Yellow 5 3374-30-9,
 Japan Blue 203 3520-42-1, Japan Red 106 **3564-09-8**, Japan Red
 502 **3567-66-6**, Japan Red 227 **3761-53-3**, Japan Red Number
 503 3844-45-9, Japan Blue 1 4403-90-1, Japan Green 201 4430-18-6,
 Japan Purple 401 4680-78-8, Japan Green Number 402 5141-20-8, Japan Green
 Number 205 5421-46-5, Ammonium thioglycolate 6252-76-2, Japan Red 401
 6358-69-6, Japan Green 204 6372-96-9, Japan Yellow Number 402 6417-61-4,
 Japan Blue Number 202 6417-85-2 7722-84-1, Hydrogen peroxide, biological
 studies 7789-38-0, Sodium bromate **9003-04-7**, Aronvis S
 9003-39-8, PVP-K 90 17301-53-0 17372-87-1 18472-87-2, Japan Red 104
 19381-50-1, Japan Green 401 26062-79-3, Merquat 100 **26590-05-6**
 , Merquat 550 28880-55-9 33239-19-9, Japan Orange Number 207
 36653-82-4, Cetyl alcohol **53633-54-8**, Gafquat 755 76050-42-5,
 Carbopol-940 81859-24-7, Leogard G
 RL: BIOL (Biological study)

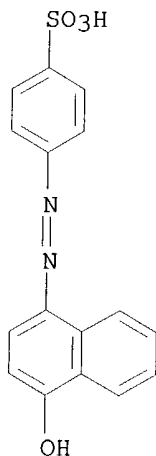
(hair wave-setting and dye compns. containing)

IT **523-44-4**, Japan Orange 402 **587-98-4**, Japan Yellow 406
1064-48-8, Japan Black 401 **1934-21-0**, Japan Yellow 4
2783-94-0, Japan Yellow 5 **3564-09-8**, Japan Red 502
3567-66-6, Japan Red 227 **3761-53-3**, Japan Red Number 503
9003-04-7, Aronvis S **26590-05-6**, Merquat 550
53633-54-8, Gafquat 755

RL: BIOL (Biological study)

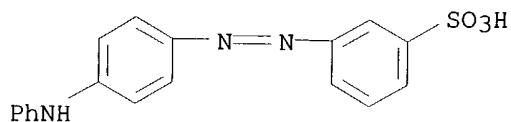
(hair wave-setting and dye compns. containing)

RN **523-44-4** HCAPLUS
 CN Benzenesulfonic acid, 4-[(4-hydroxy-1-naphthalenyl)azo]-, monosodium salt
 (9CI) (CA INDEX NAME)



● Na

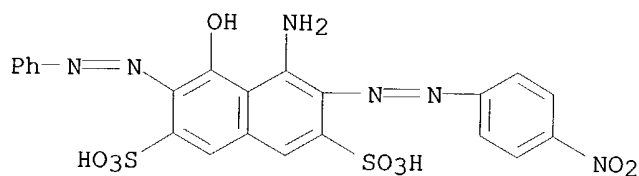
RN **587-98-4** HCAPLUS
 CN Benzenesulfonic acid, 3-[[4-(phenylamino)phenyl]azo]-, monosodium salt
 (9CI) (CA INDEX NAME)



● Na

RN 1064-48-8 HCAPLUS

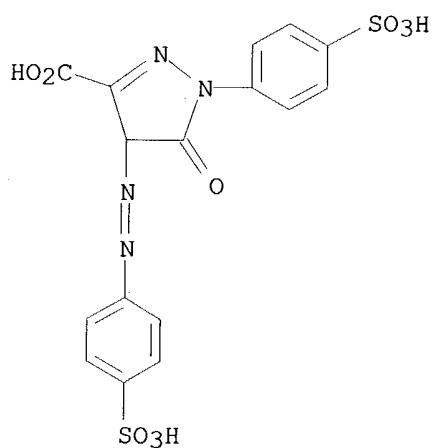
CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

RN 1934-21-0 HCAPLUS

CN 1H-Pyrazole-3-carboxylic acid, 4,5-dihydro-5-oxo-1-(4-sulfophenyl)-4-[(4-sulfophenyl)azo]-, trisodium salt (9CI) (CA INDEX NAME)

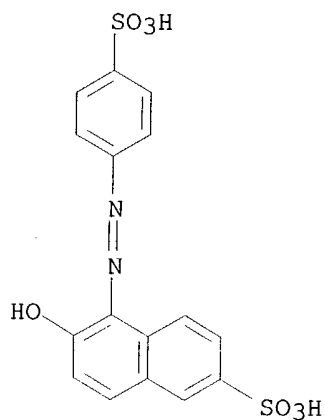


● 3 Na

RN 2783-94-0 HCAPLUS

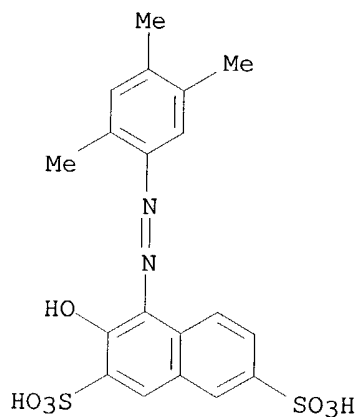
CN 2-Naphthalenesulfonic acid, 6-hydroxy-5-[(4-sulfophenyl)azo]-, disodium

salt (9CI) (CA INDEX NAME)



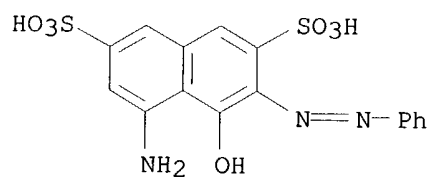
●2 Na

RN 3564-09-8 HCAPLUS
CN 2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(2,4,5-trimethylphenyl)azo]-, disodium salt (9CI) (CA INDEX NAME)



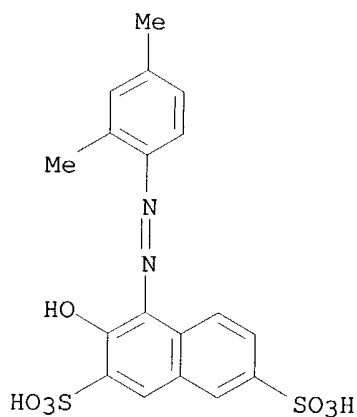
●2 Na

RN 3567-66-6 HCAPLUS
CN 2,7-Naphthalenedisulfonic acid, 5-amino-4-hydroxy-3-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 3761-53-3 HCAPLUS
 CN 2,7-Naphthalenedisulfonic acid, 4-[(2,4-dimethylphenyl)azo]-3-hydroxy-,
 disodium salt (9CI) (CA INDEX NAME)



●2 Na

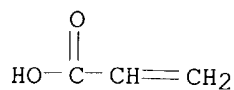
RN 9003-04-7 HCAPLUS
 CN 2-Propenoic acid, homopolymer, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 9003-01-4
 CMF (C3 H4 O2)x
 CCI PMS

CM 2

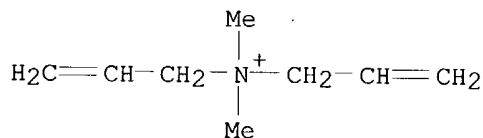
CRN 79-10-7
 CMF C3 H4 O2



RN 26590-05-6 HCAPLUS
 CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
 2-propenamide (9CI) (CA INDEX NAME)

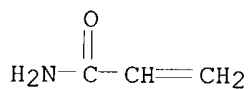
CM 1

CRN 7398-69-8
 CMF C8 H16 N . Cl



CM 2

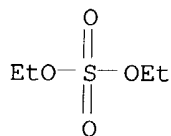
CRN 79-06-1
 CMF C3 H5 N O



RN 53633-54-8 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with
 1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate (9CI) (CA INDEX
 NAME)

CM 1

CRN 64-67-5
 CMF C4 H10 O4 S

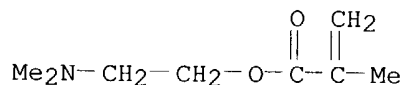


CM 2

CRN 30581-59-0
 CMF (C8 H15 N O2 . C6 H9 N O) x
 CCI PMS

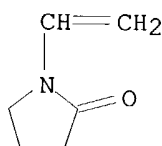
CM 3

CRN 2867-47-2
CMF C8 H15 N O2



CM 4

CRN 88-12-0
CMF C6 H9 N O



L21 ANSWER 42 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1991:29928 HCAPLUS
DN 114:29928
ED Entered STN: 26 Jan 1991
TI Hair dyes comprising amine oxides and surfactants
IN Schrader, Karlheinz
PA Blendax G.m.b.H., Germany
SO Eur. Pat. Appl., 7 pp.
CODEN: EPXXDW
DT Patent
LA German
IC ICM A61K007-13
CC 62-3 (Essential Oils and **Cosmetics**)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 367926	A1	19900516	EP 1989-115806	19890828
	EP 367926	B1	19931020		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	AT 96015	E	19931115	AT 1989-115806	19890828
	ES 2046407	T3	19940201	ES 1989-115806	19890828
PRAI	DE 1988-3834406		19881010		
	EP 1989-115806		19890828		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 367926	ICM	A61K007-13

AB Hair dyes comprise in addition to a direct dye 2.5-20% amphoteric surfactant, 1-10% surface-active amine oxide, 1-10% nonionic surfactant, and, optionally, 0.5-5% protein hydrolyzate. A hair dye comprised protein hydrolyzate 2.00, 2Na EDTA 0.80, polyoxyethylene (120) methylglucoside oleate 2.50, cocoamidopropylbetaine 5.00, cocoalkanolamide 2.00, polyglycol 3.00, cocoamidopropyldimethylamine oxide 5.00, poly(sodium **acrylate**) 0.40, polyethylenesorbitan monostearate 3.50,

preservative 0.20, perfume 0.20, C.I. 12,719 0.02, C.I. 12,251 0.02, C.I. 12,250 0.04, C.I. 56,059 0.03, and water to 100% by weight

ST hair dye amine oxide surfactant

IT Fibroins
RL: BIOL (Biological study)
(from seal, hydrolyzate, hair dye containing)

IT Protein hydrolyzates
RL: BIOL (Biological study)
(hair dye containing)

IT Collagens, compounds
RL: BIOL (Biological study)
(hydrolyzate, hair dye containing)

IT Surfactants
(amphoteric, hair dyes containing)

IT Amines, oxides
RL: BIOL (Biological study)
(coco alkyl dimethyl, N-oxides, hair dye containing)

IT Amides, uses and miscellaneous
RL: BIOL (Biological study)
(coco, N-(hydroxyalkyl), hair dye containing)

IT Amides, uses and miscellaneous
RL: BIOL (Biological study)
(coco, N-(hydroxyethyl), hair dye containing)

IT Amides, compounds
RL: BIOL (Biological study)
(coco, N-[3-(dimethylamino)propyl], N-oxides, hair dye containing)

IT Hair preparations
(dyes, amine oxide-containing)

IT Castor oil
RL: BIOL (Biological study)
(hydrogenated, ethoxylated, hair dye containing)

IT Surfactants
(nonionic, hair dyes containing)

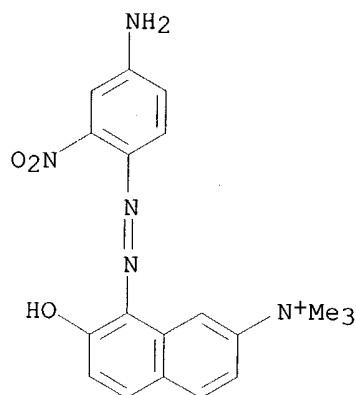
IT Amines, oxides
RL: BIOL (Biological study)
(N-oxides, hair dyes containing)

IT 142-78-9 1643-20-5, Lauryldimethylamine oxide 8004-87-3, C.I. Basic
Violet 1 9002-98-6 9005-00-9, Polyoxyethylene stearyl ether
9005-65-6, Polyoxyethylene sorbitan monooleate 25066-20-0
26381-41-9 36574-66-0D, N-cocoacyl derivs. 53026-67-8
68123-13-7 **68391-30-0** 68391-31-1 70094-14-3D, N-cocoacyl
derivs. **71134-97-9** 91776-00-0 131311-37-0
RL: BIOL (Biological study)
(hair dye containing)

IT **26381-41-9 68391-30-0 71134-97-9**
RL: BIOL (Biological study)
(hair dye containing)

RN 26381-41-9 HCAPLUS

CN 2-Naphthalenaminium, 8-[(4-aminophenyl)azo]-7-hydroxy-N,N,N-trimethyl-,
chloride (9CI) (CA INDEX NAME)



● Cl⁻

L21 ANSWER 43 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1991:29926 HCAPLUS
 DN 114:29926
 ED Entered STN: 26 Jan 1991
 TI Stable oxidative hair dye creams with high electrolyte content
 IN Abels, Willi; Aeby, Johann; Hoch, Dietrich; Mager, Herbert
 PA Wella A.-G., Germany
 SO Ger. Offen., 6 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3834142	A1	19900412	DE 1988-3834142	19881007
PRAI	DE 1988-3834142		19881007		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
DE 3834142	ICM	A61K007-13

AB Oxidative hair dye creams comprise $\leq 20\%$ dye-electrolyte mixture incorporated into a carrier. The carrier comprises fatty mixture 13.6-41.0, NH₃ 0.1-10.0, perfume 0.0-1.0, complexing agent 0.0-0.5, aliphatic Cl-6 alc. 0.0-0.5, oleic acid 0.0-2.0, and water 29.0-86.2% by weight. The fatty mixture is made of C14-20 fatty alc. 2.0-6.0, glycerol monodistearate 4.0-10.0, coco fatty acid monoethanolamide 2.0-6.0, glycol distearate 0.5-4.0, ethoxylated lauryl alc. 4.0-7.0, coco fatty acid 2-sulfoethyl ester Na salt 0.1-1.0, Na lauryl alc. diglycol ether sulfate 1.0-5.0, and quaternized poly(dimethylaminoethyl **methacrylate**) 0.0-2.0% by weight. The cream is stable at 0-40° for ≥ 12 mo, in spite of the high electrolyte content. The electrolytes originate from the salt forms of coupling agents and developers. A hair dye cream was made of cetylstearyl alc. 4.00, glycerol monostearate 6.00, coco fatty acid monoethanolamide 3.00, glycol distearate 1.50, 28% aqueous Na lauryl alc.

diglycol ether sulfate 10.00, coco fatty acid 2-sulfoethyl ester Na salt 0.50, ethoxylated lauryl alc. 4.00, Me2SO4-quaternized poly(dimethylaminoethyl **methacrylate**) 0.25, Na2-EDTA 0.25, ascorbic acid 0.25, perfume 0.25, NH3 3.00, oleic acid 1.00, 1,4-diaminobenzene 4.80, resorcinol 1.40, 4-(2-hydroxyethyl)amino-1,2-methylenedioxybenzene-HCl 1.40, 2-amino-4-(2-hydroxyethyl)aminoanisole sulfate 7.00, and water 51.40 g.

ST oxidative hair dye stable cream

IT Electrolytes
(oxidative hair dye cream stabilization by)

IT Alcohols, biological studies
RL: BIOL (Biological study)
(C14-20, hair dye cream containing, oxidative)

IT Alcohols, biological studies
RL: BIOL (Biological study)
(C16-18, hair dye cream containing, oxidative)

IT Amides, biological studies
RL: BIOL (Biological study)
(coco, N-(hydroxyethyl), hair dye cream containing, oxidative)

IT Glycols, esters
RL: BIOL (Biological study)
(diesters, with stearic acid, hair dye cream containing, oxidative)

IT Hair preparations
(dyes, oxidative, stable creams)

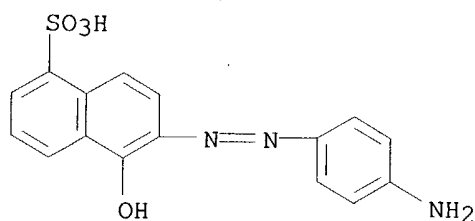
IT Glycerides, biological studies
RL: BIOL (Biological study)
(stearic acid-containing, hair dye cream containing, oxidative)

IT 57-11-4D, Octadecanoic acid, esters with glycerol 84-85-5,
4-Methoxy-1-naphthol 90-15-3, 1-Naphthol 95-70-5, 2,5-Diaminotoluene 95-88-5, 4-Chlororesorcinol 96-91-3, 2-Amino-4,6-dinitrophenol 99-57-0, 2-Amino-4-nitrophenol 106-50-3, 1,4-Benzenediamine, biological studies 108-45-2, 1,3-Benzenediamine, uses and miscellaneous 108-46-3, 1,3-Benzenediol, biological studies 116-85-8 123-30-8 128-95-0, 1,4-Diaminoanthraquinone 137-19-9, 4,6-Dichlororesorcinol 533-31-3, 4-Hydroxy-1,2-methylenedioxybenzene 591-27-5, m-Aminophenol 608-25-3, 2-Methylresorcinol 632-99-5 1004-74-6, Tetraaminopyrimidine 1220-94-6 2380-94-1, 4-Hydroxyindole 2475-45-8, 1,4,5,8-Tetraaminoanthraquinone 2835-95-2, 5-Amino-2-methylphenol 2835-98-5, 2-Amino-5-methylphenol 2835-99-6, 3-Methyl-4-aminophenol 3248-91-7 5307-02-8, 2,5-Diaminoanisole **5858-51-5** 6100-60-3, 2,4-Dihydroxyanisole 6358-09-4 7664-93-9D, Sulfuric acid, cetylstearyl esters, sodium salts 9002-92-0 10190-75-7 14268-66-7, 4-Amino-1,2-methylenedioxybenzene 16060-49-4, 2-Amino-5-ethoxyphenol 17672-22-9, 2-Amino-6-methylphenol 24905-87-1 **25154-86-3D**, Poly(dimethylaminoethyl **methacrylate**), quaternized 26183-44-8 52025-40-8 73793-80-3, 2,5-Diaminobenzyl alcohol 81329-90-0 83763-47-7 93841-24-8 94158-14-2 101562-88-3 102767-27-1 104516-93-0 131169-96-5
RL: BIOL (Biological study)
(hair dye cream containing, oxidative)

IT **5858-51-5 25154-86-3D**, Poly(dimethylaminoethyl **methacrylate**), quaternized
RL: BIOL (Biological study)
(hair dye cream containing, oxidative)

RN 5858-51-5 HCAPLUS

CN 1-Naphthalenesulfonic acid, 6-[(4-aminophenyl)azo]-5-hydroxy-, monosodium salt (9CI) (CA INDEX NAME)

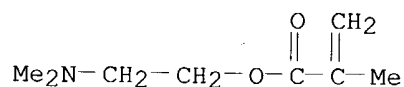


● Na

RN 25154-86-3 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, homopolymer
 (9CI) (CA INDEX NAME)

CM 1

CRN 2867-47-2
 CMF C8 H15 N O2



L21 ANSWER 44 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1990:597653 HCAPLUS
 DN 113:197653
 ED Entered STN: 23 Nov 1990
 TI Hair dyes containing water-soluble dyes, carbon black, and nonionic
 surfactants
 IN Kino, Mitsuhiko; Kato, Kazuo
 PA Hoya Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01242518	A2	19890927	JP 1988-70398	19880324
	JP 04004288	B4	19920127		
PRAI	JP 1988-70398		19880324		

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
AB	JP 01242518	ICM	A61K007-13

Hair dyes contain carbon black and ≥ 1 water-soluble dye chosen from triphenylmethane dye, azo dye, quinoline dye, xanthene dye, indigoid dye, and anthraquinone dye, and a nonionic surfactant. Black Number-401 0.04, Orange Number-205 0.05, Red Number-201 0.01, purple Number- 401 0.01, carbon black

1.0, poly(oxyethylene)(7.5) nonylphenyl ether 5.0, poly(Et
methacrylate) 7.0, brucine-modified anhydrous EtOH 2.0, EtOH 12.0,
poly(vinyl pyrrolidone) 1.0, citric acid 0.3, Freon-21 9.0, and H2O to 100
weight% were mixed to prepare an aerosol foam hair dye, which was applied to
the hair to develop uniform black color. When the dye was used for 7 days
constantly, the hair was dyed firmly.

ST hair dye carbon black surfactant

IT Carbon black, biological studies
RL: BIOL (Biological study)
(hair dyes containing water-soluble dyes and surfactants and)

IT Hair preparations
(dyes, containing water-soluble dyes and carbon black and nonionic
surfactants)

IT Castor oil
RL: BIOL (Biological study)
(hydrogenated, ethoxylated, hair dyes containing water soluble dyes and
carbon black and)

IT Surfactants
(nonionic, hair dyes containing water soluble dyes and carbon black and)

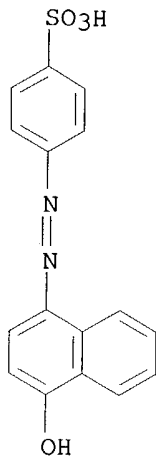
IT **523-44-4**, Japan Orange number 402 **633-96-5**, Japan Orange
number 205 **1064-48-8** 1103-39-5, Japan Red 206 1320-07-6, Japan
Brown number 201 3520-42-1, Japan Red number 106 4430-18-6, Japan Purple
number
401 **5858-81-1**, Japan Red number 201 6358-85-6, Japan Yellow number
205 **6448-95-9**, Japan Red 404
RL: BIOL (Biological study)
(hair dyes containing carbon black and surfactants and)

IT 9011-29-4, Poly(oxyethylene) sorbitol hexastearate 9016-45-9,
Poly(oxyethylene) nonylphenyl ether 53195-79-2, Poly(oxyethylene)
glycerin monostearate
RL: BIOL (Biological study)
(hair dyes containing water soluble dyes and carbon black and)

IT **523-44-4**, Japan Orange number 402 **633-96-5**, Japan Orange
number 205 **1064-48-8** **5858-81-1**, Japan Red number 201
6448-95-9, Japan Red 404
RL: BIOL (Biological study)
(hair dyes containing carbon black and surfactants and)

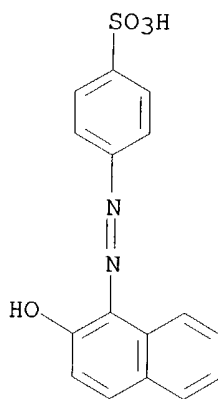
RN 523-44-4 HCAPLUS

CN Benzenesulfonic acid, 4-[(4-hydroxy-1-naphthalenyl)azo]-, monosodium salt
(9CI) (CA INDEX NAME)



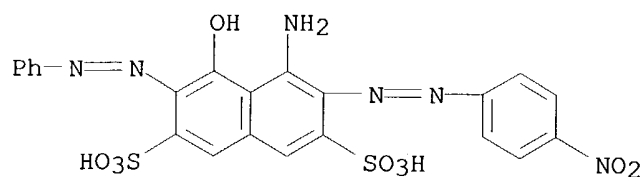
● Na

RN 633-96-5 HCAPLUS
CN Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt
(9CI) (CA INDEX NAME)



● Na

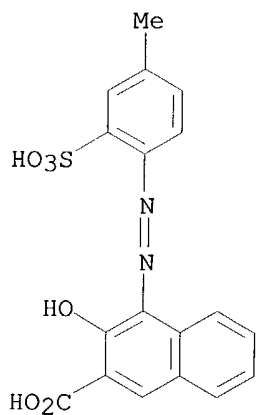
RN 1064-48-8 HCAPLUS
CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

RN 5858-81-1 HCAPLUS

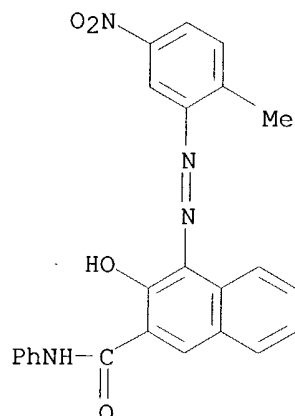
CN 2-Naphthalenecarboxylic acid, 3-hydroxy-4-[(4-methyl-2-sulfophenyl)azo]-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

RN 6448-95-9 HCAPLUS

CN 2-Naphthalenecarboxamide, 3-hydroxy-4-[(2-methyl-5-nitrophenyl)azo]-N-phenyl- (9CI) (CA INDEX NAME)



L21 ANSWER 45 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1990:124930 HCAPLUS
 DN 112:124930
 ED Entered STN: 31 Mar 1990
 TI Hair dyeing preparations containing dialkyldi(meth)allylammonium salt
 polymers and acidic dyes and dyeing methods
 IN Fukunishi, Akira; Tsunekawa, Toshio; Kawai, Minoru
 PA Sanyo Chemical Industries Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01279820	A2	19891110	JP 1988-108508	19880430
PRAI JP 1988-108508		19880430		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 01279820	ICM	A61K007-13

AB Hair dyes contain (co)polymers of dialkyldi(meth)allylammonium salts (and other monomers) and acidic dyes. Hair is dyed by application of the (co)polymers, then acidic dyes, or vice versa. The dyeing prepns. have good dyeing ability, develop fast colors, and are not irritating to the skin. Dimethyldiallylammonium chloride was polymerized in H₂O in the presence of (NH₄)₂S₂O₈ at 50-60° for 10 h under N to give a polymer (I, average mol. weight 10,000). Hair was dyed with I and aqueous solution containing

Japan Red

102, ethylene carbonate, N-methylpyrrolidone, EtOH, isopropanol, hydroxyethyl cellulose, and citric acid to develop shampoo-resistant color.

ST hair dye ammonium polymer

IT Quaternary ammonium compounds, polymers

(dialkyldi[(meth)allyl], polymers, hair dyes containing acidic dye and)

IT Hair preparations

(dyes, containing dialkyl(meth)allylammonium polymers and acidic dyes)

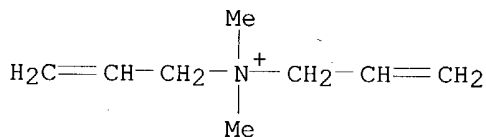
IT 110-89-4D, Piperidine, quaternized, polymers 123-75-1D, Pyrrolidine,

- quaternized, polymers
 RL: BIOL (Biological study)
 (hair dyes containing acidic dye and)
 IT 26062-79-3P, Poly(dimethyldiallylammonium chloride) 26062-80-6P,
 Poly(diethyldiallylammonium chloride) **26590-05-6P**,
Acrylamide-dimethyldiallylammonium chloride copolymer
 RL: PREP (Preparation)
 (hair dyes containing acidic dye and, preparation of)
 IT **1064-48-8**, Japan Black 401 1320-07-6, Japan Brown 201
1934-21-0, Japan Yellow 4 2611-82-7, Japan Red 102 2650-18-2,
 Japan Blue 205 4430-18-6, Japan Purple 401 6358-69-6, Japan Green 204
 RL: BIOL (Biological study)
 (hair dyes containing dialkyldi(meth)allylammnoium
 polymer and)
 IT **26590-05-6P**, **Acrylamide**-dimethyldiallylammonium chloride
 copolymer
 RL: PREP (Preparation)
 (hair dyes containing acidic dye and, preparation of)
 RN 26590-05-6 HCAPLUS
 CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl

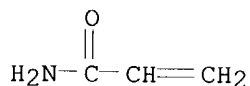


● Cl⁻

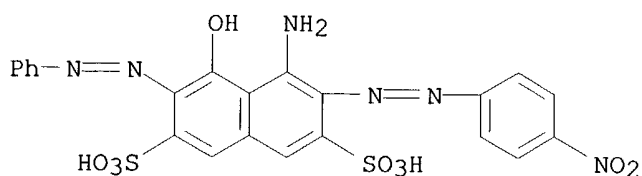
CM 2

CRN 79-06-1

CMF C3 H5 N O

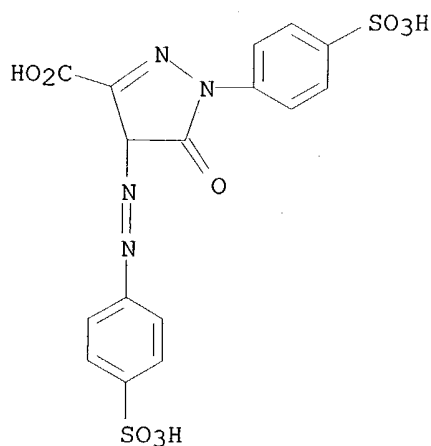


- IT **1064-48-8**, Japan Black 401 **1934-21-0**, Japan Yellow 4
 RL: BIOL (Biological study)
 (hair dyes containing dialkyldi(meth)allylammnoium
 polymer and)
 RN 1064-48-8 HCAPLUS
 CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-
 (phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 1934-21-0 HCAPLUS
CN 1H-Pyrazole-3-carboxylic acid, 4,5-dihydro-5-oxo-1-(4-sulfophenyl)-4-[(4-sulfophenyl)azo]-, trisodium salt (9CI) (CA INDEX NAME)



●3 Na

L21 ANSWER 46 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1988:555956 HCAPLUS
DN 109:155956
ED Entered STN: 28 Oct 1988
TI An aqueous composition for treatment of keratinous fibers, its manufacture and use for treating human hair
IN Hefford, Robert John Warwick; Murray, Andrew Malcolm
PA Unilever PLC, UK; Unilever N. V.
SO Eur. Pat. Appl., 18 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM A61K007-06
ICS A61K007-13; D06M015-21; D06P001-52
CC 62-3 (Essential Oils and **Cosmetics**)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	EP 257807	A2	19880302	EP 1987-306627	19870728
	EP 257807	A3	19890118		
	EP 257807	B1	19921007		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE				
	CA 1298786	A1	19920414	CA 1987-542987	19870724
	AU 8776173	A1	19880204	AU 1987-76173	19870727
	AU 600738	B2	19900823		
	JP 63035514	A2	19880216	JP 1987-187488	19870727
	JP 2575141	B2	19970122		
	IN 166205	A	19900331	IN 1987-BO241	19870727
	AT 81280	E	19921015	AT 1987-306627	19870728
	ES 2052567	T3	19940716	ES 1987-306627	19870728
	BR 8703904	A	19880405	BR 1987-3904	19870729
	ZA 8705588	A	19890329	ZA 1987-5588	19870729
	US 4943430	A	19900724	US 1989-358467	19890530
	IN 170478	A	19920328	IN 1989-BO269	19891003
PRAI	GB 1986-18634		19860730		
	US 1987-74838		19870717		
	IN 1987-BO241		19870727		
	EP 1987-306627		19870728		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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EP 257807	ICM	A61K007-06
	ICS	A61K007-13; D06M015-21; D06P001-52

OS MARPAT 109:155956

AB An aqueous single-phase composition, particularly for treatment of keratinous fibers, comprises ≥ 1 cationic polymer 0.1-10, ≥ 1 anionic monomer 0.01-10, and ≥ 1 solubilizing agent selected from amphoteric detergent active compds. 0.1-20 and inorg. electrolytes 1-30 weight%. The anionic monomer may be a food dye or a sunscreen agent. The amphoteric solubilizing agent may be a betaine; the inorg. electrolyte may be a chloride, bromide, or nitrate of an alkali or alkaline earth metal, ammonium, or substituted ammonium. The anionic-cationic charge ratio is preferably $< 0.7:1$. The composition is prepared by mixing the oppositely charged

ingredients

in the presence of the solubilizing agent. The aqueous composition is applied to wet hair as a solution diluted ≥ 10 times with water. A single liquid phase clear hair dyeing composition contains Merquat 100 (40% solution) 2.5,

Acid

Black I 0.5, Empigen BB (30% solution) 2.7, NaCl 12 weight%, and balance water with pH 6.0. Blond hair swatches treated with 0.25 g of the formulation diluted with 2.25 g water for 2 min and then rinsed were dyed a strong, intense blue color.

ST cationic polymer hair dye; anionic monomer hair dye; amphoteric detergent solubilization hair dye; electrolyte inorg solubilization hair dye

IT Bromides, biological studies

Chlorides, biological studies

Nitrates, biological studies

RL: BIOL (Biological study)

(solubilizing electrolyte, for anionic and cationic components of hair dyes)

IT Betaines

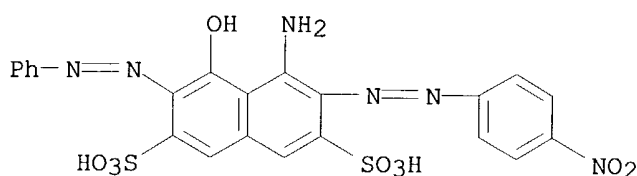
RL: BIOL (Biological study)

(C12-14-alkyldimethyl, amphoteric solubilizing agent, for anionic and cationic components of hair dyes)

IT Hair preparations

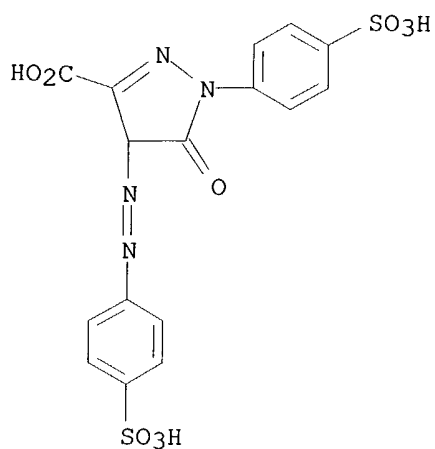
(dyes, anionic monomers and cationic polymers and amphoteric or

- electrolytic solubilizing agents in)
- IT 59355-60-1, Empigen BT
RL: BIOL (Biological study)
(amphoteric solubilizing agent, for anionic and cationic components of hair dyes)
- IT 860-22-0, Food blue 1 **1064-48-8 1934-21-0** 2519-30-4,
Food black 1 2611-82-7, Food red 7 3567-69-9, Food red 3
3734-67-6, Food red 10 4553-89-3 8004-92-0, C.I. Acid Yellow 3
8005-03-6, Acid black 2
RL: BIOL (Biological study)
(anionic **dye**, in **hair dyes**)
- IT 830-09-1D, salts 56265-46-4, Parsol hydro 116751-94-1
RL: BIOL (Biological study)
(anionic sunscreen, in hair dyes)
- IT 2867-47-2, Dimethylaminoethyl **methacrylate** 9002-89-5D,
Poly(vinyl alcohol), quaternized 9002-98-6 9003-39-8,
Poly(n-vinylpyrrolidone) 9003-47-8, Poly(vinylpyridine)
25154-86-3, Poly(dimethylaminoethyl **methacrylate**)
26062-79-3, Poly(dimethyldiallylammonium chloride) 26062-81-7
61686-26-8 63451-27-4, Mirapol A-15 75345-27-6, Onamer M 87582-56-7,
Poly(vinylpyridinium chloride) 116656-62-3
RL: BIOL (Biological study)
(cationic polymer, in hair dyes)
- IT 7647-14-5, Sodium chloride, biological studies
RL: BIOL (Biological study)
(solubilizing electrolyte, for anionic and cationic components of hair dyes)
- IT 151-21-3D, Sodium lauryl sulfate, ethoxylated 39464-69-2, Briphos O3D
RL: BIOL (Biological study)
(surfactant, in hair dyes)
- IT **1064-48-8 1934-21-0 3734-67-6**, Food red 10
RL: BIOL (Biological study)
(anionic **dye**, in **hair dyes**)
- RN 1064-48-8 HCAPLUS
- CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



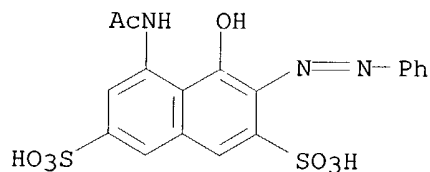
● 2 Na

- RN 1934-21-0 HCAPLUS
- CN 1H-Pyrazole-3-carboxylic acid, 4,5-dihydro-5-oxo-1-(4-sulfophenyl)-4-[(4-sulfophenyl)azo]-, trisodium salt (9CI) (CA INDEX NAME)



●3 Na

RN 3734-67-6 HCAPLUS
CN 2,7-Naphthalenedisulfonic acid, 5-(acetylamino)-4-hydroxy-3-(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)

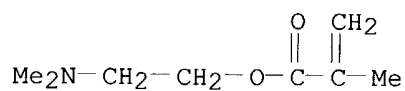


●2 Na

IT **25154-86-3**, Poly(dimethylaminoethyl methacrylate)
RL: BIOL (Biological study)
(cationic polymer, in hair dyes)
RN 25154-86-3 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 2867-47-2
CMF C8 H15 N O2



L21 ANSWER 47 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1986:411847 HCAPLUS
 DN 105:11847
 ED Entered STN: 13 Jul 1986
 TI Oxidative hair-dye composition based on a low-viscosity carrier
 IN Hoch, Dietrich; Konrad, Eugen; Pasquier, Gilbert; Mager, Herbert
 PA Wella A.-G., Fed. Rep. Ger.
 SO Eur. Pat. Appl., 23 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and Cosmetics)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 166100	A1	19860102	EP 1985-104563	19850415
	EP 166100	B1	19890111		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	DE 3423589	A1	19860109	DE 1984-3423589	19840627
	WO 8600223	A1	19860116	WO 1985-EP165	19850415
	W: AU, BR, JP, US				
	AU 8542394	A1	19860124	AU 1985-42394	19850415
	AU 579633	B2	19881201		
	JP 61502531	T2	19861106	JP 1985-502018	19850415
	JP 02012929	B4	19900330		
	BR 8506791	A	19861125	BR 1985-6791	19850415
	AT 39840	E	19890115	AT 1985-104563	19850415
	CN 85103112	A	19861022	CN 1985-103112	19850424
	CN 85103112	B	19880928		
	CA 1254833	A1	19890530	CA 1985-481419	19850513
	IN 164721	A	19890520	IN 1985-CA380	19850518
	US 4725282	A	19880216	US 1985-817851	19851127
PRAI	DE 1984-3423589		19840627		
	EP 1985-104563		19850415		
	WO 1985-EP165		19850415		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 166100	ICM	A61K007-13
AB	A carrier for hair-dyeing gels is made of an inorg. salt 0.2-5.0, Na lauryl alc. diglycol ether sulfate 1.4-5.0, coco fatty acid diethanolamide 0.5-6.0, a 4-component mixture 4.0-14.0, H2O 56-83, NH3 0.1-5.0, aliphatic alc. 0-5, perfume 0-1, and complexing agent 0-0.5% by weight. The 4-component mixture contains cetylstearyl alc. 60-80, glyceryl (mono- and di)stearate 10-30, lanolin alc. 0-20, and quaternized dimethylaminoethyl methacrylate homopolymer 0.1-0.2% by weight. Thus, a hair-dyeing cream is given containing 95.10 g of the above carrier and 4.90 g dye mixture (m-aminophenol 0.20, 2,4-diaminophenethol sulfate 0.50, 2,5-diaminotoluene sulfate 3.00, and resorcinol 1.20 g). The inorg. salts used in the composition were Na2SO3, NaCl, and Na2SO4. The carrier has a low viscosity and thus allows fast mixing of the dye with H2O2.	
ST	hair dye carrier low viscosity	
IT	Chelating agents (hair-dye low-viscosity carrier compns. containing)	
IT	Alcohols, biological studies RL: BIOL (Biological study) (C16-18, hair-dye low-viscosity carrier composition containing)	
IT	Alcohols, biological studies	

RL: BIOL (Biological study)
 (aliphatic, hair-dye low-viscosity carrier compns. containing)

IT Amides, biological studies
 RL: BIOL (Biological study)
 (coco, N,N-bis(hydroxyethyl), hair-dye low-viscosity carrier composition containing)

IT Hair preparations
 (dyes, oxidative, low-viscosity carrier compns. for)

IT Alcohols, biological studies
 RL: BIOL (Biological study)
 (lanolin, hair-dye low-viscosity carrier compns. containing)

IT 96-91-3 99-57-0 116-85-8 128-95-0 591-27-5 632-99-5 2475-45-8
 3248-91-7 **5858-51-5** 6219-69-8 6369-59-1 10190-75-7
 24905-87-1 102767-27-1
 RL: BIOL (Biological study)
 (hair dye, low-viscosity carrier composition for)

IT 95-70-5 123-30-8 2835-99-6 5307-02-8 56289-84-0 73793-80-3
 106-50-3, uses and miscellaneous
 RL: BIOL (Biological study)
 (hair-dye developer, low-viscosity carrier composition for)

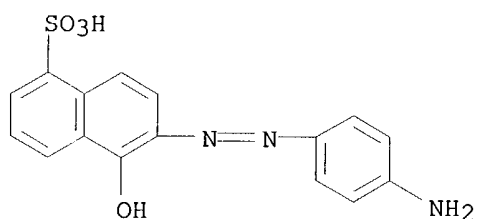
IT 1323-83-7 3088-31-1 7664-41-7, biological studies 7681-49-4,
 biological studies 7757-82-6, biological studies 7757-83-7
25154-86-3D, quaternized 31566-31-1
 RL: BIOL (Biological study)
 (hair-dye low-viscosity carrier composition containing)

IT 84-85-5 90-15-3 95-88-5 108-46-3, biological studies 137-19-9
 533-31-3 591-27-5 608-25-3 2835-95-2 6100-60-3 14268-66-7
 81329-90-0 101562-88-3
 RL: BIOL (Biological study)
 (hair-dye low-viscosity carrier composition for)

IT **5858-51-5**
 RL: BIOL (Biological study)
 (hair dye, low-viscosity carrier composition for)

RN 5858-51-5 HCAPLUS

CN 1-Naphthalenesulfonic acid, 6-[(4-aminophenyl)azo]-5-hydroxy-, monosodium salt (9CI) (CA INDEX NAME)



● Na

IT **25154-86-3D**, quaternized
 RL: BIOL (Biological study)
 (hair-dye low-viscosity carrier composition containing)

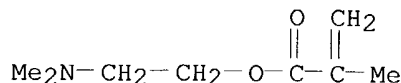
RN 25154-86-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, homopolymer
 (9CI) (CA INDEX NAME)

CM 1

CRN 2867-47-2

CMF C8 H15 N O2



L21 ANSWER 48 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1985:172425 HCAPLUS

DN 102:172425

ED Entered STN: 18 May 1985

TI Hair dyes

PA Hoyu Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 60004116	A2	19850110	JP 1983-111685	19830621
	JP 02027968	B4	19900620		
PRAI	JP 1983-111685		19830621		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 60004116	ICM	A61K007-13

AB **Hair dyes** contain volatile alcs. 40 .apprx. 95, a thickening agent 2 .apprx. 10, **dyeing** accelerators 2 .apprx. 30, carbon black and a triphenylmethane **dye**, azo **dye**, quinoline **dye**, xanthene **dye**, indigoid **dye**, and/or an anthraquinone **dye** (pH 1.5 .apprx. 4.5). These **dyes** dry rapidly and have strong affinity for the **hair**. Thus, a **hair dye** comprises Japan black 401 [86923-11-7] 0.2, EtOH 60.0, poly(**acrylic acid**) [9003-01-4] 5.0, benzyl alc. [100-51-6] 6.0, tartaric acid 2.0, carbon black 0.5, and H2O 26.3% by weight

ST hair dye carbon black alc

IT Thickening agents
Alcohols, biological studies
Carbon black, biological studies
RL: BIOL (Biological study)
(hair dyes containing)

IT Hair preparations
(dyes, alcs. and dyeing accelerators for)

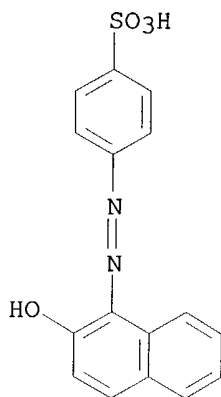
IT 64-17-5, biological studies 100-51-6, biological studies
633-96-5 1064-48-8 3374-30-9 3520-42-1 6371-96-6
6417-83-0 9003-01-4 9004-62-0 25087-26-7
RL: BIOL (Biological study)
(**hair dyes** containing)

IT 633-96-5 1064-48-8 9003-01-4
25087-26-7

RL: BIOL (Biological study)
(hair dyes containing)

RN 633-96-5 HCAPLUS

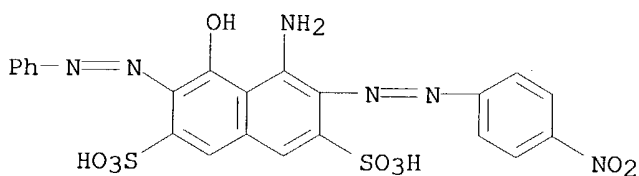
CN Benzenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-, monosodium salt
(9CI) (CA INDEX NAME)



● Na

RN 1064-48-8 HCAPLUS

CN 2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[(4-nitrophenyl)azo]-6-
(phenylazo)-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

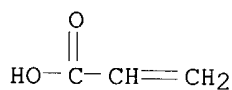
RN 9003-01-4 HCAPLUS

CN 2-Propenoic acid, homopolymer (9CI) (CA INDEX NAME)

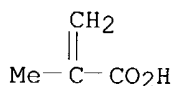
CM 1

CRN 79-10-7

CMF C3 H4 O2



RN 25087-26-7 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, homopolymer (9CI) (CA INDEX NAME)
 CM 1
 CRN 79-41-4
 CMF C4 H6 O2



L21 ANSWER 49 OF 49 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1983:563839 HCAPLUS
 DN 99:163839
 ED Entered STN: 12 May 1984
 TI Hair dye aerosols
 PA Kashiwa Kagaku Kogyo K. K., Japan
 SO Jpn. Kokai Tokkyo Koho, 3 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC A61K007-13
 CC 62-3 (Essential Oils and Cosmetics)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 58124713	A2	19830725	JP 1982-5911	19820120
	JP 63017806	B4	19880415		
PRAI	JP 1982-5911		19820120		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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JP 58124713	IC	A61K007-13
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AB Novel hair dye aerosols consist of coloring agents, mica, resins (such as **methacrylic** acid polymer [25087-26-7]), solvents, and propellants with mica and coloring agents at a ratio of 40:60-90:10. Thus, an aerosol contained 35 parts of a mixture containing, Me Ph siloxane

0.2, nonionic surfactants, 0.2, glycerol 0.2, sesame oil 0.4, titanium mica 15.0 TiO₂ 1.0, phthalocyanine blue [147-14-8] 1.8, resins 12.6, perfumes 0.2 and EtOH 68.4% and 65 parts of Freon.

ST hair dye aerosol; mica hair dye aerosol

IT Mica-group minerals, biological studies

RL: BIOL (Biological study)
 (hair dye aerosols containing)

IT Hair preparations

(dyes, aerosols)

IT 147-14-8 518-47-8 6358-85-6 **6448-95-9 25087-26-7**

RL: BIOL (Biological study)
 (hair dye aerosols containing)

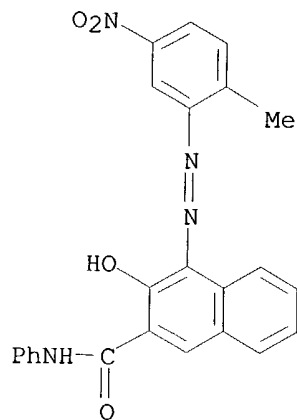
IT **6448-95-9 25087-26-7**

RL: BIOL (Biological study)
 (hair dye aerosols containing)

RN 6448-95-9 HCAPLUS

CN 2-Naphthalenecarboxamide, 3-hydroxy-4-[(2-methyl-5-nitrophenyl)azo]-N-

phenyl- (9CI) (CA INDEX NAME)



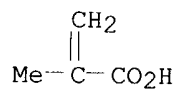
RN 25087-26-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 79-41-4

CMF C4 H6 O2



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